HISTORY

PHYSICK;

From the TIME of

GALEN,

To the Beginning of the

Sixteenth Century.

Chiefly with Regard to

PRACTICE.

In a DISCOURSE

Written to

Doctor M E A D.

By J. FREIND, M.D.

PART I.

Containing all the GREEK WRITERS.

The Third Edition.

LONDON:

Printed for J. WALTHOE, over-against the Royal-Exchange in Cornbil, M.D.C. ZXVI.

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John Chixwell

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Fourteen Teams ago.

RIE A DER

the greatest Part, writ, just as they now appear, some time ago; only to pass away a few leisure Hours, and without any Design of making them publick.

I HAVE since been persuaded to rewiew them, and have made some Additions
here and there, as I found occasion. The
Reader will easily imagine, that I have been
obliged to consult more Books than I had
in those Circumstances an Opportunity to
peruse; and some I have refer'd to,
which have been published since the sirst

composition of this Track. The Sheets, which treat of an Inquinal Hernia, were printed off, before I had seen the Translation of Mr. Garengoet's Surgery; who is the only Writer I know of, that has taken notice of a Crural Rupture. However the Substance of what is here said upon that Subsect, was explain'd in a Publick Auditor. Fourteen Tears ago.

IF this short HISTORY Of PHY-SICK can be of any Use or Enter ainment to those who are versed in the Ancients, or can excite others to be better acquainted with them, I shall think my labour very well employed: or if it should not, I shall not at all be dissatisfied with having amused my self in this Way.

here and there, as I found occasion. The Reader will could imagine, that I have been obliged to conside more woods than I had in those Givennshances an Opportunity to peruse; and some I have refer'd to peruse; and some I have refer'd to shiple have been published since the sufficient



May 10, 1723.

SOU will forgive me, that I was a little impatient to fee the new Edition of Mr. le Clerc's History of Physick: for you know very well, what a great opinion I have always had of the Learning and Judgement, which he has fhewn in the Three Parts already published. In them he brought down the History to the end of Galen's time: and having fearched into his Works, and into those of all the Writers, who preceded him, for above fix hundred years, he put together his Memoirs not only with indefatigable industry, but with exquifite skill. We find there very amply

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and clearly represented all the Philotophy, the Theory, and Practice of the ancient Physicians; so that there is scarce a Notion, a Distemper, a Medicine, or even the name of an Author, to be met with among them, of which he has not given a full and exact account.

In this Edition, we have a Plan (containing fifty-fix pages) which he designs should serve for a continuation of the History down to the middle of the 16th (the Title by mistake says the 17th) Century; a space of 1200 years, and too large to be well explained in so short a sketch, tho he had not filled half of it with relating all the obscure jargon and nonsense of that illiterate Enthusiast, Paracelsus.

You desire that I would send you my thoughts of this piece; I must own I wish, I could give it the same character, which the former very justly deserved. But it seems to me not only a very imperfect and superficial performance, but in many particulars inaccurate and erro-

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neous. I shall, in compliance with your commands, make a few cursory remarks, touching the History of Physick within this period: but as I have not the opportunity of having much recourse to Books, tho' indeed at present I have leisure enough, you must not expect any thing which is either correct or perfect; and must be satisfied only with some loose Observations, such as my memory chiefly can at present furnish me with, and which a short review of some of these Authors can suggest.

He places Oribasius, Ætius, Alexander, and Paulus, all without any distinction, in the Fourth Century. I must confess all our Historians, even the best of them, give a very confused account of the Age, wherein these Writers lived: and are so careless as to be very well contented, if they come within a hundred, or two hundred years of their true time. But it is easy to observe, that, had he read these Authors with the same care and at-

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tention,

tention, as he perused Hippocrates and Galen, &c. he might have adjusted their age much nearer to the truth, even by the help of their own writings. I shall explain this in a very few words. Oribasius, tho' he wrote his Collections in Julian's time about 360, lived however to the end of the Fourth Century, as himfelf and a Eunapius, who was acquainted with him, plainly intimate: and Ætius, who quotes him often, does not speak of him, as one who wrote just immediately before him. As to Ætius, it is plain, even from his own Books, that he did not write 'till the very end of the fifth, or the beginning of the fixth Century: for he refers not only to St. Cyril, Archbishop of Alexandria, who died in 444; but to Petrus Archiater, who was Physician to Theodoric, and therefore must have lived still later. Alexander flourished after this, for he mentions Ætius; and yet

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[&]quot; In Chryfanthio.

there could not be many years distance between them: for, besides that he commends Jacobus Psychrestus, an eminent and pious Physician, who was Archiater to Leo the Thracian before the year 474, and whom we find mentioned by Ætius: Agathias, who fet about writing his History in the beginning of the reign of Justin junior, in 565, tells us, what a great figure this Alexander made at Rome in the reign of Justinian; and subjoins a very handsome complement to him, and his four Brothers, who were very eminent in their several ways. Perhaps he might write not long before Agathias; for Alexander himself informs us, that he compiled this book in an extreme old age, when he could no longer bear the fatigue of Practice. Vanderlinden, you may observe, thinks it very uncertain, whether he flourished in 600, 413, or 360. But these are small Chronological mistakes in

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^{5.4.} Of this Jacobus hereafter.

an Author, who can make Aretous contemporary with Strabo, and St. Gregory Nazianzen, and place them all under the

reign of Augustus Casar.

Paulus was still later, for he mentions Alexander: and Abulpharagius the Arabian, who has left us the most explicit history of those times, places Paulus in Heraclius's reign, about the year 621: and not as Fabricius represents it, 'in the reign of Constantin Pogonatus, about 680. For the Arabian Author d puts Paulus just before the Chalifate of Othman, which began in 643, two years after the death of Heraclius. Besides we find by Paulus's account of himself, that he studied at 'Alexandria, which must certainly be before that City was taken and plundered by Amrou in 640. By the way we may learn from hence, that even in this time the School of Alexandria made a great figure, since it still con-

⁶ Biblioth. Gr. Vol. 12. d 114. 4, 49.

rinued to be the celebrated Place for teaching the Art of Phylick: and the story Abulpharagius f tells of Johannes Grammatious, a very learned Man, who lived then in that City, will shew us, what an immense collection of books had been made there by the bounty of their Princes, since the burning of the Ptolemean Library in the time of Cufar. For when Amrou had received orders from the Chalif to have the books destroyed, he distributed them throughout all the City, among those who kept Bagnios (of which then in Alexandria there were no fewer than 4000) and yet, notwithstanding all the havock one may suppose was made, it took up fix months time to consume them.

THIS short detail will let us see, how much we ought to rely upon the accuracy of a late learned Tract, which sets down the age of these Physicians and of Diocles thus;

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Oribasius -		-350
Alexander	-	- 360
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THE last mistake about the time of Diocles is unaccountable: for not only his Letter to Antigonus, concerning Health, is preserved in the very Author, Paulus, who is supposed here to have lived eighty years before Diocles; but we all know this writer was, as Pliny expresfes it, both in age and fame, the fecond to Hippocrates, above 300 years at least before Christ: So that in this one article, there is only the small error of about 800 years. Give me leave to observe, that, if this Letter be genuine, it cannot be writ, as Fabricius supposes, to Antigonus Gonatas, King of Macedonia, who lived about 240 years before Christ; for this would remove Diocles too far from the time of HippoHippocrates: and therefore it is more probable, that this Antigonus was elder, perhaps the successor of Alexander, about the year 320 before Christ, or 130 after the birth of Hippocrates; and this Antigonus answers the description here given of being an old man, as well as Gonatas; for he was above eighty, when he was killed. So that by this account the age of Diocles will fall out, as Pliny has described it, in the next generation after Hippocrates, much near the time of Aristotle.

THESE perhaps at first sight may seem to some mere Chronological niceties: but I believe upon reflection they will acknowledge, that unless this point (i.e.) the age of every author be first cleared up, any Historical detail of the state of *Physick* must be extremely defective; and we must be at a great loss to know either what advances it made, or what changes it received in each different period of time.

Mr. le Clerc bestows no more than three pages upon all these four authors: and thinks this a sufficient reason to give for it, that they were Compilers. True it is, the two first and the last were chiefly fuch. But did they compile so, as to have nothing at all new, and what we may call their own in these very voluminous works? far otherwise. For tho' I must confess, that there are not a great many things in them, in proportion to the bulk of their books, but fuch as may be found in Galen and others, and yet some there are too, in regard to the real improvement of the Art it self; however as to what concerns the Historical part of it, which is the subject of our present enquiry, furely a great deal of matter may be pick'd out of these writers, fit to entertain our curiofity at least, if not to inform our judgement. One thing equally holds in the state of Learning, no less than in the state of Empires: It may be as much pleasure and instruction to the reader to observe

observe the gradual declension in each of them, as it is to trace the sootsteps of their rise, or to take a prospect of them at their height.

BUT to speak more particularly of these Authors. Both Oribasius and Ætius, whose Volumes are very bulky, do collect indeed, but from many others as well as Galen. Oribafius uses a great variety of expression, of which we have this advantage, that often one place, or one author, explains another: and this justice ought to be done to him, that he helps us the better to understand several passages in Galen, relating both to Anatomy and Medicine. Ætius writes with more perspicuity: he treats of more distempers, than Oribasius comprizes either in his Synopsis, or his discourses to Eunapius; and is fuller in describing the symptoms of them, and the method of cure.

Mr. le Clerc says, these two furnish us with every thing which is essential in Theory or Practice, particularly in Anatomy

and Surgery. But I must observe, that Ætius in his long work entirely omits Anatomy, and the use of the parts; and what is purely Chirurgical in him, is scattered confusedly here and there, and is imperfect as well as immethodical in comparison of what we find upon the same subject in Paulus: which is the reafon, I suppose, that a great master in Surgery, Fabricius ab Acquapendente, chooses almost every where to follow the authority of this last writer, rather than that of Ætius. Oribasius indeed in two large Books (the two last of his remaining Collections) has described all the parts then known of the humane body, and affigned the proper office to each of them: but he has added little to what Galen has discoursed of in his Anatomical Works; and upon the account of this Treatise, rather than of any other of his Writings, he deferves the name given him of Simia Galeni. Only one thing we find, which is either omitted by Galen, or is lost together with fome

fome other of Galen's Works, the first description of the Salivary Glands, which is this. " b On each side of the tongue, " lie the orifices of the vessels, which " discharge the spittle, and into which " you may put a probe. These vessels " take their rise from the root of the "tongue, where the glands are situated. They rise from these glands, in much such a manner as Arteries " usually do, and convey the Salivary " liquor, which moistens the tongue, " and all the adjacent parts of the "mouth."

However Oribasius, tho he explains Anatomy so fully, has scarce any thing in all his three different works, which now remain, relating to Surgery, as far as it concerns Manual operation: unless those two little tracts de Laqueis & Machinamentis may be reckoned his, which are collected from Heracles and

Lib. 24. 8.

Heliodorus: and yet, were these his own, how little of Surgery do they contain? Atius was, without doubt, a practicioner in Surgery himself, and gives some little account of almost every operation, particularly he is fuller in cases of the Eyes, than even Celsus is: yet notwithstanding this, he takes no notice of a very material branch of Surgery, Fra-Etures and Dislocations; in treating of which, Celsus thinks sit to employ an entire book.

Oribasius and Ætius have preserved several fragments of Antiquity, and those of some value, not any where else extant: To omit a number of others, many of Archigenes and Herodotus (the chief of the Pneumatick Sect) of Posidonius and Antyllus, each of whom seems no inconsiderable writer: though the second is but slightly touched upon by Mr. le Clerc, and the two latter not so

^{4, 3, 3. 4. 4, 39. &}amp;c.

much as ever mentioned, the both commended, especially Posidonius, by Galen. Antyllus, as we may collect from & Oribasius, wrote several books; wherein, though in different places, he treated of the Gymnastick Art. In those remains, which are here preserved, we read of some sorts of exercises, not mentioned by Galen, or any former author: among the rest the 'Cricilasia, as the Translators, by mistake, call it, instead of Cricoelasia. This, as it had for many ages been disused, Mercurialis himfelf, who has made the most judicious inquiries into this subject, does not pretend to explain; and I believe, tho' we have the description of it set down in Oribasius, it will be hard to form any Idea of what it was. Atius has supplied us with some pieces of the same and other old writers, particularly of Soranus the Methodist, and of Leo-

t Collect. 6. 21. 1 ib. 26. # 3. 8.

nides the Episynthetick, the last of which had great skill in Surgery. Add to this, that in both these authors several new medicines occur, undescribed by their predecessors.

Oribafius, either from Apollonius, or himself, speaks very fully of the good effects of bleeding by way of "Scarification, a thing little taken notice of by former writers: and affures us from his own experience, how fuccessful he had found it in a suppression of the Menses, defluxions of the Eyes, Headach, straitness of Breathing, even when the perfon was extreamly old. He tells his own case particularly, when the Plague raged in Afia, and he himself was taken ill, that the second day he scarified his leg, and took away two pound of blood; by which method he entirely recovered, as did several others, who used it.

[&]quot; Collect. 7, 20.

By the way we may observe, that this was a different manner of Scarifying, from that performed by the help of Cupping. The Arabian Physicians seem to have a notion only of the latter practice b: but from this place, as well as from some passages of Galen, it is plain, that the Ancients made deep incisions into the skin by the knife; and therefore thought, by the large quantity of blood they could draw off, that this method was equivalent to opening a vein. The Æg yptians make use of it to this very day; and Prosper Alpinus describes at large the Apparatusi: they make first a strait ligature under the ham, then rub the leg, and put it into warm water, and beat it with reeds to make it swell, and so scarify. A process in every particular different from Cupping; and therefore in the cure of Giddiness k, Oribasius himself speaks of them, as two distinct operations.

⁴ Albucas, lib. 2. 3. 5. 4 Synopf. 8. 5.

WE find in this Author the first account of a strange and surprizing distemper, Λυκανθρωπία I or Λυκάνθρωπ . a species of melancholy and madness, which he describes thus. " The per-" sons affected, go out of their hou-" fes in the night-time, and in every " thing imitate Wolves, and wander " among the sepulchres of the dead 'till day break ". You may know them " by these symptoms. Their looks are " pale; their eyes heavy, hollow, dry, " without the least moisture of a tear: " their tongue exceedingly parched and " dry; no spittle in the mouth, ex-" treme thirst; their legs, from the falls and bruifes " they receive, full " of incurable fores and ulcers." Ætius gives the very same description, with fome little variation; only calls it

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m Actuarius adds, that they return home then, and come

to their senses. Meth. Med. 1. 16.

" Among Stones and Thorns, Actuar. and from the bires of Dogs, At. 6. 11.

Κυνανθρωπία as well as Λυκανθρωπία, and observes it prevails most in February .. Ætius takes this passage, as he says, that is, makes a paraphrase of it, from Marcellus Sidetes, an Author who lived under Adrian and M. Antoninus; and who wrote forty-two Books concerning Distempers, in Heroick Verses, as appears not only from Suidas, but from an ancient Epigram p which is still preserved. Paulus has transcribed the same account of this disease word for word; the title of the chapter is, TER Auxdor 9 99, &c. and Lambecius feems to give us a very right explanation, how this blunder of Auxaor . here,

* Kufter in Suidam: 9 3. 16. * Biblioth. Cafar. uniw abway

lib. 6. 149.

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o This seems to be the true reading, notwith standing Lambecius inclines to that of occorda instead of ocupsacion, the Month, which brings on the difease: But this is certainly a forced construction, and by no means proper Greek: And tho' be refers to some strange stories which C. Peucerus, & great dealer and believer in Magick, tells of the Lycaones, as he calls them, in the Northern Parts of Europe and Asia, who used to be seized with such a Distemper, only within twelve days of Christmas, this cannot in the least, I think, disprove the Authority of Etius.

and that of Auxaus in Suidas, arose from mistaking the abbreviation used in the Manuscripts. But I cannot agree with him in the remark he makes, with regard to Ætius: the words of Ætius, both in the manuscript and printed works are, κ μέγρις ημέρας τα μτημαία μάλις α διανόιδεσι, they open the Tombes. Gorraus corrected this place, and would have it read, mei का primala mança sialson, they dwell or live among the Tombes: because Paulus says in the very same sense, mei roi μνήμα διαλείβεσι. Lambecius thinks this emendation wrong, because the authority of the Manuscripts is against it; but I am afraid this is paying too great a deference to the transcribers: for the word Sialson better answers the description of this Distemper, as it is set down by every one of these writers. The translation of Oribafius expresses it by Vagantur; and Actuarius describes it by running about the Sepulchres and Defarts, The range megitina, words which probab-

ly he might take from Oribafius. This is very different from opening the Tombes: a circumstance, of which there is not the least hint in any of these authors. I might add, as another argument for this interpretation, that the Damoniack in the Scriptures, who was possessed with a like fort of madness, is represented as having his I dwelling among the Tombes, and abiding 'in the Tombes, and cutting himself with the Stones. Besides the word MEALER proves the correction of Gorraus to be right: for no sense can be made of it with the other reading: tho' Donatus ab Altomari " keeps, or rather confounds both the readings, and translates the passage, circa defunctorum monumenta plerumq; versantur, eaque maxime aperiunt. I should not have made this short excursion in the way of criticism, were it not to give you an instance, how the

[/] St. Mark 5. 3. ' St. Luke 8. 27. " Meth. Med. c. 9.

most learned men may often mistake, when they pronounce their opinion in matters relating to Physick, without having some knowledge in that Profesfion, or being well versed in the several authors, who have writ upon that subject. However as to the Distemper itfelf, I shall only observe, that, if we may believe the reports of travellers, it has not been uncommon in some Countries, as Livonia, Ireland, &c. and we meet with fome accounts of the like case, in our modern writers of Phyfick. An author just now mention'd, Donatus, says, he had himself seen two instances of it: and the History Forestus, relates, is very remarkable, and agrees with the description here given by Oribafius, not only with regard to the Ulcers in the legs, but to the circumstance I have been speaking of, the frequenting Church-yards. The Greek word used to

denote this Disease, expresses the nature of it very justly; and yet Vander Linden is so careless a writer, that he makes it a synonymous Term for the madness of the Wolves themselves.

You see there occurs in Oribasius, however a compiler, something new in relation to Distempers, at least not to be found in any author now extant before him. He was, by all accounts, a Man not only of a great genius, but of great business and experience: and accordingly, if we peruse him with attention, which I believe has scarce ever been done by those who have pretended to give a character of him, we shall find very just rules of Practice laid down in several cases. To give you only an instance in one, that of an Epilepsy 2: he describes the cure both in the acute and the chronical Sort, that is, in the Fit as well as out of it. When the Fit is

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² Syn. 8. 3.

over, he orders bleeding: and after four or five days, when the body is a little recruited, purging: three days after, cupping and scarifying. He repeats these evacuations, and sometimes Sinapisms, at convenient distances, and in the intervals gives proper nourishment, and uses warm medicines, such as Castor, Mint, Rue, and the Cyrenaick Juice. Whether this be taken out of Posidonius, as by reading Atius upon the same head there may be some reason to suspect, I cannot tell; but the method is certainly right, and agreeable to a rational Practice. The Epitome of what Galen had faid upon the same argument in the next chapter, is by no means so full and circumstantial. And you may perceive that, tho' Oribafius mentions Specificks (for the ancients had as great an opinion of them as we can have) fuch as Paonyroot, and that in the form of an Epileptick Necklace: he is far from relying upon them alone, and lays the greatest stress, where indeed it ought to be laid, upon Evacuations. Nay, I might remark, that Galen in his famous Epistle to Cecilianus, the first Instance of this kind in antiquity, does not point out so exact a method of cure: though he wrote it on purpose upon this single argument, and not being acquainted with the particulars of the case, was obliged to suppose every circumstance which might happen, and therefore gives it himself the Title of uno min. Even in this Letter, I fay, which is none of the shortest, he lays down no methodical course of curing: but after a slight mention of purging, speaks of two or three Simples, Squills and Wormwood, &c. as serviceable in this Distemper, and then insists chiefly upon the manner of Diet, which indeed he describes at large. You will not imagine, by any thing I have faid, that I have the less opinion

knowing Man, and an excellent Physician, no ways without doubt inferior to Oribasius; but here I am speaking only in the bistorical way, and relate sacts as they appear upon the records we have left of the Ancients.

You will observe, that this method of Oribafius runs upon Evacuations and Corroborants; which some injudicious persons have thought not only seemingly contradictory, but utterly incompatible; and indeed it is a very vulgar error to think, that, when a Physician chooses to apply one of them, he must of course in his judgement condemn the other. Experience will convince us, that the method of using both of them, is so far from being inconsistent, that it is the most rational of any, and often extremely necessary, not only in this and other Distempers of the Head, but in several sorts of Feavers. An understanding Physician may collect this from from his own Practice; and he who has a clear notion of the Animal Occanomy, will be further satisfied of the reason of it: he will easily comprehend the necessity there often is of emptying or making a Revulsion, in order to remove obstructions, which may arise from a redundancy or viscidity of humours: and at the same time will discern, of what service it will be to apply such Remedies in their turn, as may raise the blood, or to speak more Physically, make the Fluids circulate in their natural course, and restore the solid Parts to their Tone,

THESE few Instances will be sufficient to shew, that even this Author, tho' he be chiefly a Collector, may furnish us with some new and useful reflections in Physick; and he who reads him with this view, may find some other passages of the same kind, not to be met with in the more ancient writers.

Oribafius, tho' commonly reckon'd a Sardian, was born at Pergamusk, and bred up, together with Magnus and Ionicus, in the school of Zeno the Cyprian, who taught then I suppose at Sardes, tho' afterwards he removed to Alexandria, where he became a famous professor! Eunapius, who had good knowledge in Phylick, and is the same perfon probably, to whom the four books De Euporistis. &c. are inscribed, represents Oribafius as the greatest Scholar and Physician of his time, and a very engaging and agreeable man in conversation. He describes him as no less confiderable in his Interest, than in his Learning: according to his account he contributed very much to the advancement of Julian to the Empire, who in return made him Questor of Constantinople", and who, as appears by one of his "Letters, had an intire confidence in him.

k Eunap. in Oribafio.

m Suidas.

Julian-Epist. 47.

In the fucceeding Emperor's time, thro' the envy of his enemies, he fell into difgrace, had all his estate confiscated, was banished, and delivered into the hands of Barbarians: amongst whom, in a little time, by his courage and skill, he gained fo much love and reverence, that they, seeing what great Cures he performed, adored him as a God. At last he was recall'd by the Roman Emperor, and flourished in reputation and riches, at the very time, when Eunapius wrote this account, which must be near the year 400: for Eunapius was then as it should feem in the first rank of Physicians, and was but twelve years old at the death of Julian in 363.

Oribasius wrote Seventy (according to Photius) or (according to Suidas) Seventy two Books of Collections, which he compiled not only from Galen, but from all the preceding Physicians, and his own

⁹ In Chryfanthio.

experience, at the desire of Julian; the Fifteen first of which are only remaining, and two others treating of Anatomy, which are called by the translator Rafarius the 24th and 25th of that Collection. Afterwards he made an Epitome of this great Work, and reduced it into nine Books for the use of his Son, Eustathius. He also wrote four Books about Medicines and Distempers, as was before observed, to his friend Eunapius. Besides these, Photius gives an account of two other Pieces, extant in his time; one consisting of four, the other of seven Books, which were merely an Epitome of Galen's works, and dedicated likewise to Julian: Paulus mentions this Epitome?; but it is now lost, as are some other Tracts, which Suidas takes notice of. There are several Receipts of Oribafius quoted by Ætius. The Commentaries upon the Aphorisms of Hippocrates, put out by Guinther under his name, are, without doubt, spurious. It is a little surprizing, how this Editor, who was a Man of some learning, could take them to be genuine: for besides that it is a trifing work, and as to the matter no ways worthy of Oribafus; the Author, whoever he was, manages the forgery with so little Art, that he makes Oribafius write this at the defire of Ptolemy Euergetes 9, whereas these two were so far from being contemporaries, that there is the distance of six hundred years between them. The recommending sometimes the holy Scriptures, sometimes 72rence and Virgil, as books proper to be read in particular cases, and the quoting this Hemistick out of Ovid, -Timor addidit alas, is still more absurd; and makes it probable, that these Commentaries, such as they are, were writ in Latin, and by a Christian.

⁹ Præfat. 7 2. 39. S 2. 35

Barchusen has lately given us a sketch of this author's Theory, with regard to Distempers: but surely he might have spared his pains, since Oribasius has not a syllable upon this head, but what is to be found in Galen. And this he might have made as good a reason for saying nothing upon this article, as he does, when he mentions Atius: who indeed speaks more largely to the causes of Distempers, and not only from Galen, but from several Authors not mentioned by Oribasius. I have often admired the profound judgement of this modern Writer, who could in two feveral shapes, first in ingenious Dialogues, and now in plain Dissertations, compose a long work concerning the History of Physick, and yet would only confine himself to give an account of the Theory, which each Physician made use of: As if it were of less importance to consider their Practice both in Physick and Surgery, and compare it with the methods of those who lived either before or after them.

I HAVE faid something already of Atius, but shall observe this further of him, that in his Chirurgical pieces there are many things worth taking notice of; he mentions several ways, and not a few, which he had feen practiced in his own time, of performing some of the operations; and he speaks of his own experience, not only in the chapter concerning Castrationk, but in many other places. There is in him indeed a great deal upon this head, which is neither in Celsus, nor Galen: and the manual processes he describes in these cases, are at least double in number to what may be found in them. Nay, there are fome, which are even omitted by Paulus. To give an instance or two: He relates, from Asclepiades, the manner of curing an Anafarca very exactly! This

^{4 4, 1, 122.}

^{1 3, 2, 30.}

is by making incisions on the inside of the leg, about four fingers breadth above the ankle, as deep as generally those in bleeding are made. At first a little blood issues out; after, there is a continual discharge of water, without any inflammation, so that the aperture cannot be closed, 'till the humour is spent, and the swelling gone down: and this drain cures the Distemper without any internal Medicine ... Leonides the Alexandrian, an Author who lived after, but near Galen's time, and whose remains we find chiefly in Ætius, says further, that if the incisions in the legs do not make a discharge quick enough, some ought to be made in other parts of the body: in the thighs, in the arms, or in the Scrotum, if swell'd, by which means a great quantity of watry matter may be evacuated. Archigenes adds, that by these scarifications, not only the swelling of the thighs and legs, but that of the Belly has been found to subside. And

no doubt, where an Ascites is attended with an Anafarca, this method may fucceed in some degree; tho' in a simple Ascites it must be ineffectual. The operation itself is mentioned by Hippocrates; and has been practiced from his time, down to our own days, with great fuccess. Sylvius de le Boe proposes another way of Acupuncture, and assumes the discovery of it to himself; though 'tis plain, it is all taken from the Description here given, and in so many words deferibed by Avicenna: But this is not the only modern invention, which we may meet with in the ancient writers of Phyfick. However, it is obvious to all, who have ever feen any thing of Surgery, that the Lancet is much to be preferred to any Needle, in opening Anafarcous fwellings.

W E find many passages in this Author, to convince us, how much both the actual and potential Cautery were then

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in use: particularly in a Palfy " he says, from Archigenes, that he should not at all hesitate to make an Eschar either way, and this in feveral places: one in the nape, where the spinal Marrow takes its rife; two on each fide of it; three or four on the top of the head, one just in the middle, and the three others round it. He adds, that in this case, if the Ulcers continue running a good while, he should not doubt of a perfect recovery. There are many, who think Iffues a modern invention, and not in the least known to the ancients; but furely any one who considers the description here given, must be satisfied, that they had as clear a notion of this matter, as we have at this day. Nor is this the fingle instance we meet with in Ætius. He is still more particular, when he comes to order this application in an inveterate Asthma", after all other

m 2, 2, 28.

remedies have been tried in vain. One, he fays, should be made on each side near the middle of the joining of the Clavicle, with that caution, as not to touch the wind-pipe: then two other little ones near the Carotids under the chin, one on each fide, so as that the Caustick may penetrate no further than the skin. Two others under the breasts between the third and fourth ribs; and again, two more backwards towards the fifth and fixth ribs. Another besides in the middle of the thorax, near the beginning of the Xiphoid cartilage, over the orifice of the stomach. In like manner one on each side between the eighth and ninth ribs. Again; there should be made three others in the back, one in the middle, and the two others just below it, on each side of the Vertebra. Those below the neck ought to be pretty large, not very superficial, nor very deep: and all these ulcers should be kept running for a long time. He advises the

the same fort of operation in an Empyema, and a Phthisis: and in both those cases we may observe, that he orders the Eschar should be made circularly, which no doubt keeps the fore longer from healing, as is the manner of making iffues by a Caustick to this day. Paulus transcribes, almost word for word, what has been mentioned in relation to an Ashma, and applys the same direction to the cure of an Empyema; only adding, that the root of Aristolochia should be used, with Oyl set on fire by the actual Cautery. In the same distemper he relates, from Leonides, the manner of palfing a pointed Iron red-hot even thro' the Pleura, to let out the purulent matter from the Thorax. He mentions too the common way of making a Paracentesis; but observes, that this operation either kills the patient immediately, or leaves an incurable Fiftula. This Albucafis takes from Paulus; but the first obfervation is not always true; and in fo

dangerous a case, surely one would at least compound for so little an inconvenience as this last. Ætius not only in other places, but particularly in the cure of a Sciatica, describes the several ways of making potential Cauteries, in the Legs, and elsewhere; and tells us how the Ulcer may be kept running, who in this is every where followed by Paulus 9. From this account of Ætius I think it is plain, that the ancients very well understood the effect of Issues, and the best way generally speaking how to make them, which was by Causticks: and they are still found to be a successful application, in the very distempers he particularly recommends them for. I will only observe, that the three chapters concerning the Palfie, Empyema, and Sciatica are taken from Archigenes; and therefore prove, that the antiquity of this operation goes as high at least as the

^{9 4, 2, 24. 4, 2, 25.} P3, 4, 3. 96, 2, 3, 73, 53.

time of Domitian. C. Aurelianus mentions both these ways of cauterizing in a Head-ach and Sciatica, but in the former case does not at all approve of it. However according to him, Themison, who was more ancient than Celfus, advises it in a Phthisis. It is very certain indeed, that this use of the Cautery was well known to Hippocrates, and is in very plain terms described by Celfus, who recommends it, and that always actual, in a Dropfy', Epilepfy I, Sciaticat, and Phthifis": and to shew the true idea he had of the advantage there was in the difcharge made by this operation, he lays it down as a perpetual rule in all these cases, "That the ulcers should not be " healed, but suffered to continue run-" ning, 'till the humour was spent, and " the disease reliev'd." So Ætius in the case of a bite by a mad dog, advises the keeping them open forty, or fixty days,

r 3, 21. /3, 23. *4, 23. #3, 22,

and if they close, to open them again. And this was certainly the practice of the ancients, and equivalent no doubt to the manner now in use. Some would make a distinction between the Cauteries of the ancients and the modern Issues; but the short view I have here given of this practice will let us fee, there is no material difference at all. The moderns indeed have thus far improved the experiment, that they generally order them (according to the advice of Rhazes *) in the more fleshy parts of the body; or rather, in the interstices of the Muscles; whereas we find the ancients sometimes made them near a bone, as in the Sternum, the Nape, the Clavicles, &c. where, if any thing is put in to keep the iffue open, it must press upon the Periosteum, and create great pain; besides that in fuch a part the discharge, on which the cure chiefly depends, can never be fo con-

siderable. This was the way, and the only one, of making Issues among the ancients; for cutting them with the Knife was a much later invention. Many prefer the altual Cautery to the potential, because the Eschar separates much sooner; but as the former has the air of greater feverity, the latter is generally substituted to gratify the timorous humour of the patient: and for the same reason it may be practicable to make the Iffue fo much the deeper. The Glandonp, who has writvery well upon this subject, has such an opinion of the former manner, that he had rather have fix Issues made that way, than one by the other; and in fourteen years practice he fays, he never made use of the potential Cautery but twice.

to say something of a particular species of Issues, called a Seton, very plainly described, as Mr Bernard observes, by Lanfrance

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four hundred years ago. And if we examine into the writers before Lanfranc, we shall find the practice of it still more ancient. Roland, who lived earlier in the thirteenth Century, not only mentions the thing, but uses the very word , and gives a description, how the needle with the thred should be passed. Camanusali, a Phyfician of Baldach, or Bagdet, who, at the latest, lived before that City was taken by the Tartars in 1258, and who wrote about the distempers of the eyes, and collected all that the Arabians, Chaldeans, the Fews, and Indians had faid upon that subject, mentions a Seton twice; in the cure of a Cataratta, and what he calls the Lunellab, an impostume between the Cornea and the Uvea. Albucasis, I think, describes the operation plainly, where he treats of cauterizing the armpit, for a diflocation of the shoulder, when it arises from too great a flux of humours; and makes use

^{5 1, 34, 36, 4 6, 3,} b 6, 4,

of a Cautery, which has two or three spits or branches, very small, and sharp, and runs into the skin, 'till it comes out on the other fide'. The fame method he uses in tumours of the Spleend, and advises that the ulcer should be kept running for a long time. Franciscus Pedemontanus, who was Physician to Robert King of Sicily about 1310, transcribes the words of Albucasis, in speaking of a dislocation in the same place. There are not only these authorities for the Seton's being made use of in those early times; but the discourse of Rhazes concerning Cauteries makes it clear, that it was a familiar practice in his age. He describes the several places it should be made in, in the neck, between the ribs, in the belly, &c. and for what distempers, &c. the translator calls it Se-Horium; and these ulcers, he says, must be kept open cum tentis & petiis, which is as plain a description of a Rowel or a Se-

^{9 1, 26.} d 1, 31. e Agritud. Junetur. 3.

ton, as words can express. For pains in the ears, eyes, or teeth, he particularly advises one to be made either in the middle or pulp of the ear, and the running to be continued, as long as it can. I the rather mention this, because it seems to be not improbable that this hint, as many others have been, was at first taken from a practice very common among Cattle-Doctors. Columella, who wrote in Claudius's time, describes the operation very fully, and elegantly in these words. cc f Præsens etiam remedium cognovimus ra-" diculæ, quam pastores confiliginem vocc cant. Ea in Marsis montibus plurima a nascitur, omnique pecori maxime est salu-" taris. Lævå manu effoditur ante solis ortum, sic enim letta majorem vim credi-" tur habere. Usus ejus traditur talis; eneâ " subulâ pars auriculæ latissima circumscri-" bitur, ita ut manante sanguine tanquam " O literæ ductus appareat orbiculus. Hoc

f De Re Rustica 6, 5.

ec & intrinsecus, & ex superiore parte au-" riculæ cum factum est, media pars de-" seripti orbiculi eadem subula transuitur, " & facto foramini prædicta radicula inse-" ritur; quam cum recens plaga comprehen-" dit, ita continet, ut elabi non possit: in « eam deinde auriculam omnis vis morbi, pe-" stilensque virus elicitur, donec pars, que " subula circumscripta est, demortua exci-" dat, & minima partis jactura caput conor ferwatur." The method here mentioned is still in vogue with the herds men; and what is proposed by Columella, is, with regard to the Plague or some epidemical infection among Cows: and accordingly, we find the same remedy by Issues was afterwards applied to a humane body in the fame distemper; first by J. Arculanus, who flourished in the fifteenth Century; and from his example, feveral Physicians in the succeeding age, recommended them as one of the most effectual preservatives in that terrible case.

As to a Seton in particular, it may be observed, that in Albucasis's time, and for some hundred years after, the way of making it was always by the Cantery. Hollerius is the first, or at least one of the first, who made it, as is the usual manner now, with a needle unheated; which makes it the more forprizing, that Hildanus should so long after describe it as an invention of his own. However, perhaps the cutting a Seton, without a Cautery, may be still more ancient; and there feems to be fome ground in the criticism of Severinus, that by the word Sectorium, used in the translation of Rhazes, it is implied that it was not done by Uftion: and indeed it is very plain, that Rhazes distinguishes the two ways of performing this operation either by burning, or cutting, and sometimes by both jointly: and in the article where he orders a Seton to be cut between the navel and the clavicle for an Asthma, Phthisis, Pleurify, &c. he adds, that a Cautery likewise may be applied in the same place, for the same complaints. I must observe further upon this subject, that whoever reads this short chapter of Rhazes, and considers the distempers, which these several sorts of Issues are prescribed for, will quickly be fatisfied, that the ancients knew the true force of this application, as well as any of the moderns have done since. Give me leave to conclude this head with a remark which Severinus makes upon the following passage in Rhazes. " - Nota, " hoc generale esse, in omni loco Fontium " cauterizandum est, per quem Fluxus bu-" morum transcre videtur ad membrum ali-" quod, sive deorsum sive sursum, ad in-" tercipiendum Fluxum. —" He imagines, that from hence the word Fonticulus, as used in this sense, took its rise. The obfervation is ingenious and natural; and as this term is certainly modern, it may probably be the right way of accounting for its first introduction.

Ætius is the first, who, from Leonides, has given us any account of the Dracunculis, a fort of worms sometimes little, sometimes large, which breed most frequently in the legs, and now and then in the muscular parts of the arm, and of the fides (Paulus adds b) in children. The distemper chiefly affects children, and is oftenest observed in Æthiopia and India. Galen never faw it, only had heard there was fuch a one in Arabiai: and therefore does not pretend to give a description of it. These worms move under the skin, without giving any pain; but in time the place suppurates about the extremity of the worm, the skin opens, and the head of the animal appears. Care must be taken to let the worm come out intirely of itself, or by the help of a string or incision: for if it breaks, and part of it remains behind, it occasions exquisite pains. Pau-

^{2 4. 2. 85.} b 4. 59. i Loc. affect. 6. 3.

his proposes another way of drawing it out, by fastening a little leaden weight to the worm, to bring it away by degrees; but others, he fays, think that by this process it would be liable to break. The worm fometimes is extremely long, commonly of ten or fifteen palms length; Albucafis tells us he faw one of twenty; and Rhazes mentions a case, where a person had forty of these worms in his body, and recovered. Several passages to the same purpose, we may find in more modern Historians k. The Arabians, from the distemper being frequent at Medina, gave it the name of Vena Medinenfor; and they called it a vein, because they doubted, as Soramus did before, whether it was a living animal and not rather some concreted substance like a nerve: and therefore Avicenna, contrary to the method of Paulus, treats of it, not amongst Worms, but amongst Abscesses. In this

[&]amp; Cleric. de Vermibus, Kempfer, &c. Philosophical Transact. n. 225.

certainly they were mistaken; and Leonides here we fee, in direct terms, calls it an Animal. Velschius, to display his Arabick learning, of which indeed he has a great deal, has written a whole book about it, by way of comment upon a chapter in Avicenna, concerning this subject: but Avicenna adds little to the description here given in Atius: and if Velschius thought it more proper to have an Arabian author, and no other to comment upon, he might as well have chosen Rhazes, who many years before wrote as fully of this distemper as Avicenna. The Vena Medinensis is, by many authors, and by Mr. le Clerc himself, in his Supplement, supposed to be the same as another distemper described by the Arabians, the Affectio Bovina, which is a little worm, and often found in Cows. But Atius plainly distinguishes the two forts, large, and little: and Albucasis has two fepa-

1 2. 91, 92.

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fes, and the description he gives of them is very difference.

This distemper is often attended with a feaver for two or three days, and sometimes brings on terrible fymptoms, and ends in Abscesses, which require many months to cure them. It is very common in Guinea, and chiefly among the natives: Kempfer m found it so too at Ormuz upon the Persian gulf, and therefore calls it Dracunculus Persarum, and not only there, but in Tartary. He observes that the disease prevails most in the hottest climates and in the hottest weather; and attributes the production of these worms to the stagnating rainwater, which is so much made use of in fuch countries. It is easier, he says, to be cured in the climate it is bred in. He saw this worm twice alive, and describes the manner of extracting it at

large: which is much the same as the Surgeons now use in the West Indies with the Blacks.

Ætius is every where full of outward applications, and employs almost a whole book " particularly upon Plasters: where he amasses together not only those which Galen has described in his treatifes concerning the composition of Medicines, but all those he could find in the more modern authors, Persians and Ægyptians as well as Greeks. These he ranges according to the several virtues with which they are endowed, and the different uses to which they are adapted. He is very accurate and distinct in explaining the reasons, and describing the forms of those which make by much the largest part of this class, those I mean which are defigned for discussing or suppurating tumours. We shall find he speaks very sensibly of this matter:

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" When any hardness begins, and some " fense of feeling still remains, emollient " medicines, he says, should be appli-" ed, such as at the same time mode-" rately discuss: and many there are " which partake of both these qualities, "For violent discutients, which evacu-" are without softening, do indeed les-" fen the swelling; but leave afterwards "man incurable evil. For the thinner, humours being exhaled, those which "s are more gross and terrene stay behind, " and are not to be removed by Art; " therefore such applications should be " used, as have a mixture of both. First sherefore we should try Emollients, then 5 proceed to Discutients, and mix them "by degrees with the other. The ha-"bie of the body must likewise be con-"fidered, as well as the condition of Solthe swelling. By this means we may " attain to a knowledge, conjectural 4 indeed, but not entirely devoid of " Art: and by trying the experiment When ef two

" two or three days in the manner de-" scribed, we may easily discern, whe-" ther we should diminish, or increase " the force of the Medicine." And when he comes to mention the distinction between discutients and suppuratives, he is still more explicit. "-Those who " have described the virtues of com-" pound Medicines have called some " plasters drawing, and some discussing: " there are too those, that share both these qualities, which have a great af-" finity one with the other. For those "that draw, do at the same time difcufs; and those that discuss, draws " and they act either way with more energy, according as the predominant " quality prevails. And therefore when " we reduce them to the form of a Plaz " fter, we must mix with them some-" times Pitch, fometimes Wax, fomerimes Oyl or Rosin, &cc. such substances not having, in any great degree, either a drawing or a discutient faculty-" And

And yet when he comes to give us a detail of these Plasters, he leaves us in confusion and uncertainty as to the operation of them: and does not distinguish enough which are most proper for discusfion, and which for suppuration; nay, often the same Plaster is recommended strongly for both intentions. What he fays of some discussing Plasters is very extraordinary, not to say extravagant; he has one which he stiles a most wonderful discusser of Abscesses; and that called Helladicum^p, he tells us, disperses Abscesses, when turned into Pus. But I may, I believe, venture to affirm, that it is out of the power of any medicine, to work such a miraculous change in Abscesses, which arise upon an Inflammation. For as many times no application will hinder the making of matter in a tumour, so when it is once made, I conceive it is certain, that no art can give any cure but by letting it

9 141

p ibid

out. But as this subject wants some further explanation, allow me to enlarge upon it, so far at least as this author shews me the way. One would naturally think, that the Practice of outward applications, which began so early and has continued in all ages almost the same, might have been settled and adjusted to an exact nicety. No distempers have ever oftner occurred, than Humoral Tumours: and yet if we look into the writers of Surgery, ancient as well as modern, tho' they have been very luxuriant in distinguishing these Tumours into their proper species and families, we shall find this subject handled with so much perplexity and confufion, that the indications and the remedies will appear to us equally uncertain. To re-examin only the two most general ways already mentioned, with which Tumours are treated, and those very disting from and contrary to one another, Discussion and Suppuration: if our prastice must be directed by what we read,

we shall often find our selves at a loss, which of the methods ought to be followed; or if we should chance to find it, what Medicines must be applied to make that method succeed: one author extolling that for the best discutient, which is as vehemently recommended by another to promote suppuration; tho' furely if we would make use of the light, which Anatomy gives us into the true texture of the cutaneous parts, nothing might be more clearly explain'd, than the nature and reason of these operations. In order therefore to form a right notion of discussion, we must first of all suppole, that the leveral fluids which make these tumours, are as yet contained in their proper vessels: but an obstruction arising in the capillary outeries, either from a fault in the blood or from external accidents, the humours, which should circulate, stagnate in the part affected, and by a continual afflux diftend the veffels fo much beyond their dimenfions,

sions, as to raise a swelling. Now from the very account here given of the production of a tumour, 'tis plain what are the proper and genuine intentions of discussion, which are two; that is to open the pores so, as that the redundant matter may be in some measure discharged by perspiration; and to attenuate and alter the humours so, (and not only by outward but by inward methods) that they may recover their usual course thro' the capillary vessels: and these two defigns must be carried on jointly, which, whenever they are, are the adequate means to make the tumour subside and vanish. For if we should only pursue the first intention, that of opening the pores, the thinner part of the matter, as Ætius very justly observes, would fly off, whilst the remainder grows stiffer, fixes the obstruction, and thickens the membranes. Hence so often, upon the use of violent hat discussives, which promore too free a perspiration, is left an incu-

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incurable induration and Scirrbus: in the fame manner as in some Feavers, especially what are called the flow, too liberal a use of Diaphoreticks, without proper Evacuations, renders the blood more vifcous than it was before, and more liable to stagnation; which ill-judg'd and preposterous method not only gives no relief to the original complaints, but lays a foundation for many distempers, and perhaps of a worse kind, to succeed. If we consider this matter with any attention, we shall easily perceive how ill Discussion is defined by some writers of Institutions, to be an insensible Evacuation; the second intention to attenuate and alter the humours, which is of equal necessity, being left out in the definition. For this reason, in order to make a right discussion, we find Ætius, and after him Hildanus, advises always some share of emollient ingredients, whose particles may serve to qualify the force of the others, and restrain the too vehe-

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ment and precipitate dislipation, that would otherwise be made thro' the skin. And upon the same view it is, that some practical writers so highly commend a mixture of spirituous and oily medicines, not only to discuss swellings, but to ease pain. Accordingly our experience tells us, how effectual Oyl of Turpentine, and all chymical oyls are, in these cases; which are nothing else but spirits locked up, and, as the phrase is, concentred by some oleaginous substance, as we may argue from that easy rarefaction and quick ascent by fire; and therefore, upon repeated distillations, being more freed from the viscous particles, they are converted into spirits, and are so called. So necessary it is to carry on the intention of attenuating at the same time, that we make a discharge. Hence those applications, which have a mixture of Mercury in them, prove the most effe-Etual discussives: and a medicine chiefly consisting of Cinnabar, is what is most recom-140

recommended by Alexander, for diffolving the concretions in the joints, which arise from a Rheumatism or Gout. Accordingly we should never fail of seeing the same effects, if Opium and Campbir, two of the most attenuating substances which perhaps we have, had a larger proportion in discussive compositions. On the other hand we must pursue this defign of attenuating in such a manner, as not to use those things, which clog or ob-Aruct the cutaneous passages. Oyls, which are very glutinous, come under this chara-Ater; and therefore Ætius, upon the application of the Persian P plaster, which he describes, and even commends to a degree of rapture, gives a particular caution, that no oyl should be smear'd upon the part. Galen expressly says, that oyls stop the pores; and accordingly advises Unction after Bathing, for this reason, that they should not perspire too much. And

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oyl of Mastich 9 is a remedy much esteemed by our author for the cure of immoderate sweats, because it obstructs the pores. Upon the same principle C. Aurelianus argues against the application of oyl of Roses, in the accession of a phrensy. And it was more upon this account, no doubt, that the Athleticks, among the ancients, used to anoint all their bodies over with oyl, than for the reason commonly abidate affigned of making any fast hold more 911 difficult: for perspiration being stops, there was a larger supply of blood and consenspirits to the muscles, which enabled fore them to exert a greater force and vigour, - unip during their exercises. Therefore perhaps the invention of Unctions is generally attributed to Herodicus, who was the first that prescribed Gymnastick medicines. Hippocrates and Galen forbid the use of oyls and fats in fresh wounds and ulcers; for this reason, that they keep in

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the matter, which should be discharged, and often occasion a fungus: and Hildamus in the composition of his Unquentum Agyptiacum, so highly commended by himself and others for the cure of Gangrenes, though now not so much in vogue, uses neither oyl nor fat: and 'tis no impertinent caution which he gives about the cataplasm he recommends for the same purpose, that great care should be taken, least the flower of beans and lentils, &c. he makes it with, should be boiled too much, and by that means contract a viscolity, so as to endanger a stoppage of perspiration. And the reason is plain to any one, who understands the Anatomy of these parts: for we see the plates of the cuticle so disposed, and ranged one over another in fuch a manner, that they are often stuck and glewed together, even by so thin and subtile a substance, as that of perspiration itself. So in inflammations and strains, the glutinous oyls are certainly prejudicial: and instead instead of discussing the swelling, bring it to matter; and if this be superficial and near a bone, to the no little hazard of making it foul. The like observations have been made of strong suppurative medicines used at first in a Paronychia, when the tumour has lain deep and close to the bone; and in this very case you will find a different practice marked out by Ætius r. Our own Surgeons with great judgement divide the tumour length-ways, upon one fide of the Tendon; which faves the patient a great deal of pain, and secures him from danger. Wax is ranked only amongst the suppuratives by Celsus, and no doubt properly belongs to that class: and yet what a share is allowed it now in discussive applications? Gums and Rofins, though they are complex substances, and have a mixture of penetrating parts, yet they contain some too of such a glutinous nature, as Ætius himself acknowledges, that they

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feem adapted more to close the pores, than to clear them: and therefore, by Fallopius, who has distinguished better between discutients and suppuratives, than most writers, are thought improper for the intention of discussing. Hildanus gives us many instances of the mischievous confequences of Paracelfus's Stiffick plaster, so mightily cried up in his time for the cure of wounds: and he attributes these ill effects to the large proportion the Gums have in it, which, he says, constantly increase the flux of humours to the part they are applied to. So in Phlegmons gummy plasters laid on too early, raise the swelling, and heighten the pain. For when we rarify and attract the humours, and at the same time obstruct the pores, so as to hinder a free discharge; we are so far from promoting discussion, that we put nature upon another, and indeed a quite different effort, that of suppuration. And yet if we examin the composition of the discutient plasters

plasters and ointments now in vogue, I am afraid many of them will come under this censure. The practice of the ancients was, no doubt, more simple and uniform. Hippocrates, without difpute, understood Surgery very well, and yet we read of no plasters in his works: he uses a few Cerotes only, and those but feldom. The ointments he mentions were not any thing like what we call so now, but were either simple oyls, or an infusion of herbs made in oyl. But we find his practice in discussion run wholly upon fomentations: a Way perhaps which he thought most proper both to extract the virtue of the plants, and to convey it into the vessels where the tumour is. In Celsus's time the Materia Medica was much enlarged; and as his chief excellency lay in the chirurgical part of his Writings, so we see the outward applications bear the largest share in them. However, if we look into the Malagma's, which he describes for discussives,

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we shall find a less proportion in them of oyl, fat, or wax, than in our modern receipts. The composition of medicines was still much improved in the time of Andromachus, and brought to more perfection in Galen's, and even after that, as we may learn from Ætius, great additions were made to this part of Pharmacy: yet notwithstanding the ingredients were numerous, they were not altogether inconsistent. For either there were none of those gross substances mixed with the discutients; as we may remark in most of those described in the fifth chapter, and recommended by a good judge, Leonides, for the cure of strumous swellings, and which indeed are Cerotes chiefly: or if they were put in for the sake of the form, a larger share of warm ingredients was always added to make amends. Upon examination, I believe it would appear, that these rules have not been so well pursued in the succeeding ages; particularly with regard

to compound ointments. Perhaps what Zwelfer observes of Agrippa's ointment, may be justly applied to most of the others, which are used for discussing, that the juices or roots boiled, would do better without the Wax or the Oyl. And therefore, in most cases where discutient or strengthening ointments are applied now, Hippocrates used fomentations made of the herbs infused in water. A like simplicity you may meet with in the plaster of Nechepso, mentioned by Atius: where the leaves of Cypress are only pounded and soaked in the second droppings of new Wine: this he commends for an admirable discussive in strumous swellings, and assures us it will cure in seven days. He says there is a natural property in this medicine, which makes it a kind of Specifick in this case; and therefore adds, that if you would change it, or mix any thing else with it, you will do more hurt than good. Indeed in all the compositions for discussion, the mixture of glutinous things feems not to contribute to their efficacy, but to their consistence only. And might not this more particularly be faid of Mercurial ointments and plasters, which perhaps would sooner answer the end of discussing, if the Mercury were only mixed with a little Lard, in the manner which you know Fallopius used, or with Turpentine, than, as is the general practice, with an unreafonable heap of glutinous and mucilagis nous fubstances, which, by clogging the pores, only serve to hinder the Mercury in its operation, and in a literal sense to kill it. As to the use of Plasters in this case of discussion, Galen excepts against the very form, as being too hard and stiff; and therefore in Phlegmons, which are to be discussed, he advises Liniments only, as less likely to obstruct the pores. Of fuch a fort of consistence are the Emplastra ex succis, described by Ætins', where the juices of the plants are boiled up in oyl only. Yet in oedematous swellings at least Plasters are proper, and may in some sense be said to serve for a bandage or compress to force the humours into their usual channels.

Thus we see what are the proper methods which nature, and her best interpreters, point out for discussion: and from what has been said upon this head, we may easily form a right notion of suppuration: to effect which, we must indeed stop the pores, so as to leave no vent thro' the skin, but at the same time rarefy and attract the humours so, that by the great distention they make, they may burst the vessels; which when extravalated and brought to digestion, appear in the form of Pus. And from hence it is, that if we open a turnout too soon, when the matter is crude, we

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hinder it from ripening. Therefore all those medicines, which have been mentioned as improper for discussion, are the best suppuratives; accordingly Galen says, they ought to consist of gross parts; and the Tetrapharmacum, composed of Pitch, Fat, Rosin, and Wax, is thought to be the strongest suppurative by Celsus. So in wounds, the matter is at length brought to digestion by the application of emplastick medicines. And as was observed in discussion, that extremely viscous things ought not to be admitted, so neither any thing that is very discutient or deterfive, should be mixed in those applications designed only to suppurate; for the reason Hollerius gives in this case, because we then open the pores, which should be shut. And there have been too many unfortunate instances, where the intention has been to suppur rate, and applications used all the while to discuss. For when the matter is of it felf tending to suppuration, any endeavour

deavour, by way of discussion, revulsion or evacuation, does but divert it from coming to a head, and so prolong, if not wholly frustrate, the cure: on the contrary it is plain, that while we are carrying on the delign of Discussion, we ought to use at the same time all inward means of emptying the vessels and removing the obstructions in them, as Atius every where inculcates: for else, instead of discussing, we bring the tumour to suppuration. Nature is always simple and uniform; and Art, to succeed well in following her, must always tend to the fame point. And certainly, if this part of Surgery were let in a more distinct view by those who are masters in that way, and the effects of outward applications better adjusted and explained, nothing would give us a greater light into the virtues and operations of internal medicines. Model to to a conob

SEVERAL other particulars, which occur in Ætius, relating to Surgery de-

ferve our attention: some passages there are too, which would furnish very good hints with regard to our own profession. I shall for a sample instance in one, wherein is laid down a rule of practice very well worthy of our imitation. The chapter", at least some part of it, is taken from Herodotus, and treats of the Barthugla or cuticular eruptions of all forts, which have a Feaver attending them, or follow upon a Feaver, especially those which create an itching, and appear like Fleabites in the skin. Th this case, he says, nature is for the most part overloaded with redundant and viti ared juices: which, unless they are carried off by forme evacuations, either by womit or flool, are apt to fall upon the vital parts, and to prove dangerous. In the beginning therefore, if the feaver is ftrong, the first thing he advises to be done, is to let blood. I don't question

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but it was a vulgar notion then, as it is now, that an eruption upon the skin forbids fuch a practice: and the reason commonly affigued, is the fear that the humour may retreat from the circumference to the center. But it were easy to shew, from the rules of the animal oeconomy, how falle a way of reasoning this is; and how in many cases, where the blood abounds, or is very viscous, leffening the quantity will attenuate its particles, and give them a greater freedom to circulate: so that by this means the eruption, instead of being checked, advances in a kindlier manner. Therefore in an Eryfipelas, Small Pox, Measles, Scarlet Feaver, &c. if the symptoms run high, and affect the head, the lungs, or any other part, so as to give intense pain, bleeding will be found a very rational and fafe practice. And in fact, tho' I have tried no experiment more frequently, I never once observed that any of these eruptions struck in upon bleeding, when the difease much

ease required that treatment. In inflammatory cases, and in an Erysipelas particularly, it is often seen by experience, that scarifying upon the part, when the membranes are loaded and thicken'd, will remove the inflammation in a very fudden

and furprizing manner.

Atius was a native of Amida in Mefopotamia, studied at Alexandria, and was probably a Christian x, which perhaps may be the reason, why many have confounded him with another of that name, a famous Arian of Antioch, who lived in the time of Julian. In some manuscripts he has the style of Kouns Ofices, Comes Obsequii, i. e. the chief Officer of those, who used to go before the Emperor, as his attendance and Harbingers. We find in him several particularities relating to the Agyptian Pharmacy. He has collected a great multitude of receipts, particularly those, which had been

y Bibl. Czfar. 6. 102.

much celebrated or used as Nostrums by their Inventors. Some of these he seems to mention with no other delign, than to expose them, and to let us see the extravagant tate people were induced to pay for them: for instance, the Collyrium of Danaus 2, which is fold in Conflantinople for one hundred and twenty Numismata, and with great difficulty obtained from him: The Colical Antidote of Nicostratus", called very presumptuoully Isotheos, bought for two talents. It feems, I say, to have been his design to shew us, how little there is in such receipts, when they are once made publick, whatever pompous titles they might bear, or how much soever they might be in vogue: and therefore he gives them no character himself, nor recommends them from his own experience, as he does very deservedly the Philonium t. It was enough, he thought, to make a

^{2 2, 3, 98.}

bare recital of them, as instances perhaps of the knavery in those who fold them, and of the foolish credulity in those who bought them. A man who has the least acquaintance with Physick must be sensible, that any universal remedy must be a cheat; and tho' it be never fo good and valuable a medicine it self, yet it is utterly impossible it can be equally applicable to all persons, in all cases, and at all junctures; and therefore it must be determined by the skill of some discerning Physician, who is well apprifed of the nature and fymptoms of the disease, where to give it and where to forbear. We need not go far for a proof of this: we have a convincing one in that great, and perhaps the only Specifick, the Bank: which if used indifferently, and without judgement, even in intermitting cases, has a chance to do as much hurt as good.

Atius seems to be the first Greek writer in Physick among the Christians, as

far as I can recollect, who gives us any specimen of medicinal spells and charms, so much in vogue with the old Ægyptians, such as that of St. Blassus, in removing a bone which sticks in the throat, and another in relation to a Fifula.

The division of the fixteen books of Atius into four measurement was certainly not made by himself, as Fabricius observes, but was the invention of some modern; for the way of quoting him, used not only by himself, but by Photius, is according to the numerical series of the books. Tho' I find in one place the translator uses the word Quaternionibus, which slip'd in there I believe through inadvertency.

I shall take my leave of this author with giving you a sample of a remedy for the Gout, both because it is somewhat extraordinary, and the first in its

c 2, 4, 50. d 4, 3, 14. e 4, 1, 119.

kind I believe in the history of Physick. It is an external Medicine: he calls it the f Grand Dryer: the patient is to use it for a whole year, and observe this diet besides in each month. He calls the months by the Alexandrian, or Agyptian names; but in English, the direction runs thus. " In September, to eat " and drink milk: In October, to eat " garlick: in November, to abstain from " bathing: in December, not to eat cab-" bage: in January, to take a glass of " pure wine in the morning: in Fe-" bruary, to eat no bete: in March, to " mix sweet things both in eatables and " drinkables: in April, not to eat horse-" radish; nor in May, the fish called " Polypus: in June, to drink cold wa-" ter in a morning: in July to avoid " venery; and lastly in August, to eat " no mallows." This may give us fome idea of the Quackery of those times;

and yet there is a more extravagant & Antidote than this in Alexander for the same distemper; which must be used too for a twelve-month with the following regulation. "To be given in January, " February, March, and April, five days " in each month alternately; in May, " three, and in June, two alternately: " in July, August, and September, each " one day; in October and November, " each two days, and in December, four " alternately." So that there are thirtyfix doses in the year. At the same time the patient must abstain from wine, swines-flesh, beef, hare, cabbage, mustard, milk, &c. He has another too confisting of three hundred and sixty five Potions, and this must be taken so as to furnish out a course for two years. And I dare fay, whoever will have patience to go through such a regimen, for so long a time together, and intirely conform himself to these strict rules, will complain less of the Gout, than we find they do in our modern times.

However Alexander is an author of a quite different stamp, and, as Mr. le Clerc himself owns, has more the air of an original Writer; and fuch certainly he is: for he has for the most part a language and a method, if we compare him with Galen, or the copiers we have named, peculiar to himself. And when he follows the ancients in describing the fymptoms, or the cure of distempers, as no doubt he, and every one else must or should do at least, when they write a System of Physick, it is still in his own way, and in his own phrase. His stile indeed in the main, is very good, short, clear, and to use his own term, confifting of common expressions: and though through a mixture of some foreign words, occasion'd perhaps by his travels, not always perfectly elegant, yet very expressive and intelligible. The others

others range distempers in a very confused manner; he takes them as they lie in order, literally from head to foot. He is the only Greek Writer, who is as methodical, tho' in a different way, as Areteus: and these two, whom I look upon as the most valuable authors since Hippocrates, agree in another thing, that they treat of but few distempers, not above fifty or fixty. And which therefore may be supposed to have come oftner within the reach of their own observation. For if they had transcribed out of others only, why should not their works have been as voluminous, as those of Oribafius and Atius? One thing I am surprized at, that Alexander does not treat of any disorders incident to Women. He is accurate enough in explaining the causes of diseases, and the intentions he lays down for the cure, are very judicious. In the Diagnostick part he is excellent, and very exact in distinguishing distempers, which have a near resemblance

blance to one another; as a Pleurify b, from an inflammation of the liver; the flone; from the colick; beltical feavers k from quotidians and others. We may at first view discern, how deficient Oribasius and Ætius are in this point. He gives us the history of two cases with his method of proceeding, in a Tertian!, and Scirrbus m of the Spleen: which, except what we read in Hippocrates and Galen, and those not so particularly stated, are the only examples of this kind in antiquity.

He is very punctual in relating the compositions of medicines, and in mentioning the time, and way of giving them: among these there are several of his own. Indeed to speak the truth, there is so much choice of medicines in him, that there are rather too many, than too sew. But he seems to be a strong believer in the force of all his

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b 6, 1. i 9, 4. k 12, 4. 1 12, 6. m 8, 10.

drugs. There is another foible too, which I must not forget, his superstition, and the faith he has in Charms and Amulets, much beyond what one would expect from a man of his good judgment. He endeavours to give some reasons for it", and pleads the precedent of Galen; there are several instances of his being addicted to Magick; and he is the only Physician, perhaps, who ever quoted Ostanes, one of the oldest of the Persian Magi. However, whether this proceeded from the humour of the times, or the weakness of old age, the credulity should be overlooked. I shall just take notice, that he mentions these fort of remedies only in Agues, Stone, Colick, and Gout: and I think it has been the fashion almost ever since, that the use of these magical applications has chiefly prevailed in those distempers. As good a one as any of the rest o, is the verse in Homer,

n 1, 15, 9, 4

Τείρηχει δ' α΄ρορή, και δ' έςοναχίζειο γαια.

And is never the Worse for being the Cheapest.

In other matters, whatever regard he pays to the ancients, he is very free in giving his own opinion, and expressing his diffent from themp, when he thinks he has reason on his side: particularly, he very often disagrees with Galen9, and fometimes wonders, he should lay down doctrines so very confused, and indistinct'; and advises a different manner of cure, not out of any defire he says, to contradict him, but only for the fake of setting every thing in its true light. And in general I must observe this, that he not only very distinctly explains the whole method of cure in each distemper, but usually gives his reader a caution, what he should avoid doing': a direction, which, if all other writers had as exactly followed it, might have been

p 1, 17,7, 13, 9, 3. q 6, 1, 12, 1, 6. r 12, 1, 6, 7, 8. f 12. 6. t 3, 7, 4. 1, 3, 10, 13. 12. 7,

of as much use to us, as many of their politive Precepts.

THERE is another thing too, which distinguishes the character of Alexander from the foregoing writers, that he confines himself directly to the describing the signs of diseases, and the method of cure, without meddling either with Anatomy, the Materia Medica, or Surgery, as the others have done: however we find, that he wrote, or did intend to write, a book upon Fractures, and had written another piece concerning distempers of the Eyes.

He employs a whole book? in treating of the Gout, of which Galen says little or nothing: which may incline us to think, it was a more prevailing diftemper in his time. One and the chief method he takes in relieving this Disease, is by purging: and in most of the purges he recommends, Hermoda-

1, 14.

x 2, 1.

y 11.

Etyls (of which he has a great opinion, and which Oribasius and Ætius but just mention) are the main ingredients. You see how far from a modern invention it is, as is fondly imagin'd, to endeavour curing the Gout by purging: a distemper perhaps, after all, which it were better not to tamper with, notwithstanding all these good receipts, which Alexander has left us; as good at least, as any of those, which our new Pretenders to Physick have made use of.

I HAVE been somewhat longer, in order to shew, that there appears enough in this book to give him the Merit of an Original Writer. He was born at Tralles, a samous City of Lydia; where the Greek language was spoken in great persection, because of its neighbourhood to the Ionians: he had the advantage of being bred up, not only under his father Stephanus², a Physician; but un-

der the father of Cosmas, and therefore he wrote this Work out of gratitude, at the desire of the son. He was a man of an extensive practice, of a very long experience, and of great reputation, not only at Rome, but wherever he travelled in Spain, France, &c. whence he was called by way of eminence, Alexander the Physician. And this is the reason he is often fuller and more exact in the Therapeutick part, than were those who went before him: because he collected those remedies chiefly, which he had found by repeated observations to be the most effectual, as he tells us in many places, and expressly in his Preface to the 12th Book, which treats first in general of Feavers, and then of the several species of them: and which whoever reads may be convinc'd, that it ought to be placed before the other eleven; especially when he says himself, at the latter end of the Eleventh, that there he shall conclude this Work,

HAVING given some account in general of this Writer, which perhaps may recommend him to our perusal at least, I shall cursorily touch upon some of the most remarkable passages relating to Pratice, either not mentioned, or not much explained by others; and in this I shall follow him in his own method.

In a Causus, or what he calls a spurious burning Feaver, where the Bile is predominant, the Matter fit for evacuation, and the Feaver not violent, he rather prefers purging to bleeding; which last others chiefly rely upon. And adds this pertinent and judicious Remark, " I remember, says he, I have ordered purging even in acute Feavers; but " fuch a practice requires not only " much attention, and exquisite dis-" cernment, but a Physician, who is ce capable of having courage and pre-" sence of mind." Those who reason upon whatever falls within their experience, will easily perceive the force of this observation: and I believe will own, that in some cases, this method, when pursued with judgement, is attended with surprizing success. For often this may be the most proper Way of following, or affifting nature: Oribafius has a chapter (from Archigenes) upon this head b, and Galen well observes, that one of the natural means of bringing this distemper to a crisis is by a Looseness. What Alexander further observes, in giving gentle (for he by no means advises violent) purges in a Tertian or Quotidian, deserves a serious reflexion, and shews him to be a careful, as well as a sensible Practitioner.

In the same Distemper (a Causus) if a Syncope happens, from crude and redundant humours, he recommends bleeding: which I the rather take notice of, because he had scarce any

Collett. 8 46.

precedent to follow, except Aretausd, who gives the same advice in the like case. Indeed as to a Syncope in general, the Practical Writers, even among the moderns, are almost universally silent upon this point of bleeding; at least the few, who do mention it, declare their opinion against it. Scarce any, besides Sennertus and his Copier Riverius, allow it: and the latter speaks of it in a very transient manner, and as practicable in two cases only, that of plenitude and that of a fright. We may perhaps the less wonder at this extraordinary caution, if we consider what some of the ancients have said upon this head. Ætius e and Oribasius f are afraid of it, even in the case of plenitude; and C. Aurelianus lays it down as a general rule, Phlebotomiam nibil jugulatione differre ratio testaturg. But we shall find another account of this matter, if we go higher up to the Foun-

d Car. Acut. 2. 3. e 2. 1. 96. f Synops. 7. 26.

tain of Physick. Hippocrates, or some one of his disciples, says expressly in his observations upon acute diseases, that when any one is taken Speecbles of a fudden, it arises from an obstruction or interception of the Veins, in interception of πόδε ξυμβη ανευ περφάσι b, if it bappens in a perfect state of health, without any evident cause; and therefore pronunces bleeding in the arm necessary. Galen, who knew the sense of Hippocrates best, interprets the word Aquiror to include not only an Apoplexy, but a Syncope; and in both these cases so earnestly recommends bleeding, that he says, several have been killed by a different method! The condition assigned in the Aphorism (tho' not at all considered in this view by any of the interpreters) is very well weigh'd and very expressive, if it happens in perfect state of health, and without any evident cause: for under this limitation

b Vict. Acut. 4. 23.

it is scarce to be supposed, that a Syncope can arife, but from some fault in the blood, which creates a greater refistance in its passage thorough the heart, and which nothing can take off so soon as bleeding. Riolan k remarks, that this fort of Syncope, which proceeds from fullness, is familiar to the Germans, who are apt to be very gros; and he reflects upon them for their negligence in not curing it by letting blood. And we frequently observe in Practice, that upon a stoppage of any usual evacuation, as bleeding at the Nofe, Hamorrhoids, &c. a Syncope succeeds. P. Salius among the moderns is the only one, who has well confidered this case, tho' not with those restrictions, which Hippocrates lays down; and he very justly takes notice, that it Is one, which has never been treated of by the practical Writers. He gives true or three instances of it from his own

[&]amp; Encharid Anatom. 3.8 / De Affect partic. 4.

experience, which are well worth reading: and he observes, that this fort of Syncope generally gives a days warning or two, either by some sense of Suffor cation; or an intermitting Pulse: that he has prevented the fits by bleeding, and recommends this and frictions for the cure of it, which is exactly the doctrine of Alexander: that he foretold the danger to several others, who neglecting his advice, died suddenly: and he adds too that upon diffection, the blood was found to be so coagulated, that one might draw it out of the Veins, as if it had been a folid body. In this case, no doubt bleeding is highly necessary; and we may eafily conceive, that if this application does not give relief, no other can. This was the Practice of Alexander; and the Diagnosticks he founds it upon are very plain and distinct, viz. a face paler and more swelled than usual, a bloated habis of body, with a pulse little, sluggish, and having long intervals between the strokes.

ftrokes. Strong indications for such a method of cure.

IN Tertians", and much more in Quartans", he recommends vomits above all other applications, before the fit: and of the latter, he has cured the most inveterate by this remedy alone. A Practice mentioned indeed, tho' little infifted upon by the rest of the ancients; but furely very consonant to nature, and of great advantage, not only in this, but in most other chronical cases. The Antidote here describ'd, very wonderful he calls it, is indeed a little too much refembling a Quack's bill: it is Catholicon somewhat like Mithridate, and cures it seems not only this, but about thirty other distempers, which he recites. The good old man fays, the person who gave this to him, did most solemnly affirm, there was no medicine that could be compared with it, for its excellent virtues. He not only sets forth all these virtues, but describes the preparation at large: and as it was communicated to him, he very honestly, in his turn, imparts it to the World: We find the fame fair dealing in him in many other instances. I have very often admired the great integrity of the ancients, that, however credulous they sometimes were, in imagining a more than ordinary force in what they called Specificks, and magnified them beyond what they deserved, yet they never made any Secrets of them. They took pains to be thoroughly acquainted with their own Art, and by that means were led into a fense of the general Good it was designed for: and therefore being above any views of little private interest, and acting up to the character of their profession, whatever they could find out by their own experience, or collect from the observations of others, which might relieve the distempers incident to their fellow-

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creatures.

creatures, they freely and generously made it publick. This was the Practice of the Ancients; and ought to be a perpetual model for their Successors, who would imitate them either in their Knowledge or their Virtues.

A Phrenfy o is very accurately described by him, and he gives good reasons, why it does not arise from a disorder of the Diaphragm, as some imagined, but from that of the Brain itself. When he could not eafily command a vein in the arm, he open'd that in the forehead; a practice, which Rhazes after him recommends. Tho' he advises Diacodium in obstinate Phrensies, yet he gives very proper cautions about it: and if the patient be of a phlegmatick constitution, the Phrensy not very outragious, and the body weak, he dissuades the use of it. For then Opiates are hurtful, and sometimes mortal. He repeats much

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the same cautions in the case of a Pleurisy, and Cough. If we compare what he says of a Phrensy, and Pleurisy, with Oribasius and Ætius, we shall see how much more satisfactory an account he gives of these two distempers. For Paulus, in both these articles, does little else than transcribe our author.

He uses blistering Medicines, as in a Lethargy, Squills; in an Epilepsy, Lepidium; and in the Gout particularly, a great many others, as Garlick, Euphorbium, Mustard, &c. and among the rest Cantharides: which last, he says, by discharging a large quantity of Serum, give immediate relief. But he adds a very proper hint, not to rely upon these topical applications only.

FOR the cure of a Palfy, he recommends a new fort of Hiera, and that a very good one, which he describes. He advises not to add any more Scammony

p 1, 14. 9 1, 15. r 11. f 1, 16.

to it afterwards: and makes this observation, which I meet with no where elfe, and which may be made very good use of in practice, if well attended to. " For many (fays he) do so, thinking " to increase the force of the medicine, " and not knowing that by this means " they make it useless. For it is not " the intention, that the medicine should " be carried immediately through the " bowels, but that it should be detain-" ed in the body, and be conveyed in-" to the remote parts, and there atte-" nuate and correct the humours, open " the passages, remove the obstructions ", of the nerves, and make way for the " motion of the spirits." And this chiefly in a phlegmatick constitution. It would be easy to shew, what excellent good sense there is in this doctrine, and of how extensive an use the reflection he makes may be to us in regard to flow purges, in some chronical Distempers. And daily experience convinces us, that it is an admirable rule in practice, especially when we order mineral Waters, (as those of the Bath) and Calomel in several cases. So too in a Colick, and Iliaca passio, the overbrisk and pungent purgatives do often but heighten the disease, and perhaps endanger an inflammation, (as he himself elsewhere observes) unless they are prudently blunted and retarded by Opiates.

THE different sorts of Melancholy' are well described: the force of imagination painted in lively colours; and many apposite instances given, much in the same manner, as Aretaus represents them. He cures these by diet, bathing, and amusements, rather than by much medicine: and disagrees with the ancients in ordering so frequently Cupping, Leeches, and Sinapisms. And even as to purges, tho' white Hellebore be much cried up by them, he prefers the Armenian Stone, which purges very safely and

1 1, 17.

effectually, without any ill confequences or danger, which the other rough medicine too often occasions. The opinion which Alexander here expresses of the white Hellebore, agrees with what the history of those times informs us of, that this medicine so famous among the ancients had grown into utter difuse, 'till Asclepiodotus", a man well versed in Phyfick as well as Mathematicks and Musick, revived it about the year 500, and did many wonderful cures with it in the most obstinate diseases. However we fee the practice was not approved of by our Author, who flourished not long after him, circle redict

He lays down a very good rule in relation to a Parotis*, (i. e.) at first to be fure to bleed, before any discussing or drawing applications be made: that those who have been forward in doing this without bleeding, have been the

⁴ Photii Biblioth 560.

instruments of strangling their patients. And upon the fame principle he very justly explodes the use of strong repellers and aftringents, such as Solamum, Alum, &c. He describes the medicines, which are proper to make these Parotids yield to discussion: an application, which ought always to be attempted, where the case is capable of being cur'd by it, rather than suppuration. But if upon this, the tumour does not in the least subside, and the pain continues, all endeavours, he says, should be used to bring it to suppurate? and 'tis a fign that matter is making, if a Rigor and Feaver which were not before, come on unexpectedly, and the pain encreases. And in this he agrees in the main with Celsus, who gives us a very good distinction to guide our practice in this point: which is, when the swelling comes originally of it felf, without any other diftemper, to try moderate repellents first and discutients; but where it attends or H 4 follows upon another disease, as no case is more frequent, it must then be brought to maturation, and opened as soon as possible. For in this case the swelling is Critical, and solves the distemper. And Hippocrates pronounces those Parotids, which succeed long Feavers, mortal, unless they suppurate. When these are obstinate, and can't be ripen'd by external applications, there have been instances, where burning has brought them to suppuration. And Severinus, and Vallesius before him, have given us an account, how they have try'd this practice in malignant Parotids with success.

THE method prescrib'd in a 'Quincy is perfectly right; he allows repellers only at the very beginning, and entirely forbids every thing, which relaxes. He very much commends, as also does Aretaus, the antidote suggestion, so called from wild Rue, one of its chief ingre-

dients, and describes the composition. Bleeding, in his opinion is, above all things, necessary; and that three or four times, as occasion requires, only we ought to take care not to bleed ad deliquium. If there follows no alteration upon this, the veins under the tongue should be cut; tho' C. Aurelianus condemns this method as superstitious: and that not to be defer'd, 'till the next day (as Ætius advises in bleeding) but to be done the very same day. "I have of-" ten, says he, when the case was urgent, " opened a vein in the morning, in the " evening cut the Ranula, and at night " given a purge: and yet with all this, " found great difficulty in removing " the obstruction. I have, after blee-" ding in both the arms, ordered a " purge immediately, without waiting "' 'till the next day. And this must be " done, when the danger is pressing, " and admits no delay. I have opened the Jugulars with great success: " like"the Menses were suppressed: with this "double advantage, the bringing down the Menses, and taking off the swel- ling of the throat." You see he talks here, as indeed he does almost every where else, like a master in practice: and 'tis but doing him justice to observe, that this method is extremely rational and just; and that, after all our discoveries and improvements in Physick, scarce any thing can be added to it.

He mentions a Tubercle in the Lungs, which occasions a difficulty of breathing, but is not attended with any Expectoration or Feaver: a distemper taken notice of by Galen, and a common species of consumptions amongst us, especially in scrophulous bodies: and which, tho slower in its progress than a true Phthisis, where a consuming Hestick follows upon an Ulcer in the Lungs, sel-

-astil

^{: 2000 2 5, 3.} a Loc. Affect. 4, 6, 7.

dom fails to end in a hoarseness and atrophy, and to prove at last as mortal as that.

HE relates a case, which seem'd to him very wonderful and unheard of, the coughing up a Stone b: a real stone, not a viscous concretion; smooth and hard, and making a noise, if dropt upon the ground. Of such Stones cough'd up I have feen feveral, and some as big as a Filbert; where no figns of a Consumption appear'd; only there continued an inveterate cough. One I know who has brought up four or five such, at long distances of time: the person, whom he mentions, had labour'd with a cough a great while, and had no relief, 'till the stone came up. He was of a thin habit naturally, and greatly emaciated by the disease: and wou'd probably, he fays, have died tabid, if a moistning and cooling method had not been pursued,

in order to bring up this hard substance. And here he makes a very severe, but a very just reflection upon the practice of Galen; who observes indeed some tough matter spit up like hail, tho' nothing like a stone : and in such a case only advises warm and drying remedies, viz. Mithridate and Treacle, &c. leaving this remark, that none of them recovered. Alexander makes no scruple to speak out very plainly, that the method was entirely wrong: and that he would not have expressed his thoughts so freely of so understanding a man, but that the love of truth had forced him, and he looked upon it, in this case, as a fin to be filent: and ends with the famous faying of Aristotle, Plato is my friend, but truth much more. Very different is this frankness from some admirers of Galen, who with Massarias, an eminent Italian professor, had rather err

c Loc. Affect. 4, 6.

with him, than be in the right with any body else.

THE remark he makes, in treating of a Pleurify d, concerning liquids, is . worth observing; and is a proof that it was made by one, who very well understood both the nature of the animal fluids, and the force of medicines. "Moi-" sture, says he (from Hippocrates) is " the vehicle of the aliment. There-" fore don't fail to give "Euxealor, or " Water milk-warm, with other liquors " and food. For there is no dry me-" dicine, destitute of all moisture, which " can penetrate to any depth, but must " rest upon the surface, in a state of " inaction: but when something hu-" mid is join'd with it, then it infinu-" ates itself, and imparts coolness and " heat. Therefore tho' water be not " look'd upon by some to be any nou-" rishment, because 'tis a simple body,

e yet this alone is the means of nou-" rishing every thing, conveys the aliment in the body, and unites the " divided particles. For if this joins " together the dry and disunited parts of the earth, and gives it a continui-" ty, so as different vessels may be for-" med out of it: if it makes the very " bread we eat, and if it is the main " instrument of generation both in the " animal, and the vegetable World, it " is highly reasonable to think, that it " performs the same offices in the hu-" mane body." This observation, well applied, is of great consequence and extent in practice, especially in acute cafes; and whoever reads carefully Hippocrates's books concerning the diet in acute distempers (one of the most valuable remains of antiquity, and which many long treatifes upon Feavers have been spun out of) will apprehend, what great effects Dilution alone may have in the most dangerous diseases, even almost withwithout any help from medicine. Accordingly we find, that the very first principle Alexander goes upon in laying down the cure of Feavers, is to do every thing which may encrease humidity; and therefore his Practice in all these acute cases, chiefly consists in Coolers and Diluters, such as Ptisan, Hydromel, &c. 6 much, that tho' Attenuants contribute much to the same end, yet he is very cautious in giving any, which are warm, and finds fault with Galen for advising fuch a method. One thing more I must here remark in him, that when he does think it proper to allow of these warm simples, he orders them in a Decoction made with water, and scarce ever in fubstance; a Practice, which is not only consistent with his own notions, but furely founded upon very good reafon. ed a worst above of dean s

In spitting of blood, he observes, that sometimes he let blood in the ankle; which he found answer'd better than bleeding in the arm. And he gives this reason for it, that the drawing the matter towards the more remote parts, makes the revulsion the stronger: a reason as well expressed, and as good as any we now can give, even since the discovery of the circulation.

The observation he makes upon a Bédiques or immoderate hunger, is intirely new, and his own; there appearing no hint of this kind in the other authors: that it is caused sometimes by Worms. He mentions the case of a Woman, who laboured under this ravenous appetite, and had a perpetual gnawing at her stomach, and pain in her head: after taking Hiera, she voided a worm above a dozen cubits long, and was intirely eas'd of her complaints.

A Case we meet with in Practice very often.

THERE is something new too in what he remarks, however it be a trifle, about a Hiccough, tho a familiar custom now amongst us; that any surprize, or intensences of thought (as counting of money, &c.) will immediately remove it.

He recommends in some cases for a Cholera, pure Wine^b: and it is very remarkable, that in most distempers he has a separate article concerning Wine; and he is very particular in the choice of it, according as its different qualities suit the case of the sick person.

In a weakness of the Liver and a Dysentery, he takes notice of Rhubarb: a
Plant, if I mistake not, first mentioned by this author; tho' Mr. le Clerc tells
us, that the Arabians introduced the use
of it. The Arabians indeed in transla-

ting Dioscorides and the Greek Physicians, confound this root with the Rha-Ponticum, and ascribe the virtues, which the ancients have observed in this latter, to what is properly the Rhabarbarum: as may be evident to any who will look into the description, which Rhazes gives of it. And I believe Alexander himself, tho' 'tis plain Rhubarb was known in his time, was in the same mistake; for he mentions it only as an astringent, as the elder Greeks describe the Rha-Ponticum, without the least hint of its purging virtue. Paulus seems to be the first who takes any notice of the purging i faculty in the Rheum, (he calls it simply so) and tells us, how we may make some laxative medicines stronger, by the addition of this. And P. Alpinus fays that some have observed, that even the Rha-Ponticum would sometimes purge, tho' in a less degree than Rhubark . The modern

i 1, 43. k Plant. Exot. 2, 5.

Greeks gave this root the name of Barbaricum, not from the place of its growth, but from the place it was imported to; for the country in the Upper Æthiopia was call'd Barbaria, as Salmafius m well observes, from its lying upon the Sinus Barbaricus, in which were many great emporiums, particularly Rhapta, the metropolis of this region. This Gulf, upon the East, joins with the Indian Ocean; and therefore Actuarius, and after him, Myrepsus, calls this plant Peor Indixor. No doubt, in those times it was imported this way to Alexandria, and so might be known to these later Greek Physicians. However, I must observe, that Salmasus does not take notice of Alexander's mentioning Rhubarb: but quotes Paulus for it, who does not mention it: but only in general speaks of and describes the Rha. Garcia ab Horto, Physician to the Spanish Viceroy, tells us, he had learn't

m Plin exercit. 798.

in India, that all the Rhubarb which was imported thither, and into Persia, grew in China: that it was brought thither both by sea and land; but that the latter way of bringing it over Tartary to Ormuz was much the best, for by sea-carriage 'twas more subject to rot.

In the Dysentery", which he calls rheumatical, he orders bleeding to two Hemina's. He very justly condemns the rash and undistinguishing Practice of some, who immediately throw in opiates; for these do but bind up the humours for a time, affect the head and the strength, and occasion a more violent return of the flux afterwards. Therefore he thinks they ought not to be used, but in case of necessity. He takes notice, that in a true Dysentery, where there is an exulceration, matter is very often taken for slime; and I believe we often meet with mistakes, which are quite the

reverse, of slime being taken for matter.

IN a Scirrhus of the Spleen", he speaks much of the virtues of Steel. He recommends it in infusion, and even in substance: and this, as it seems to be the first instance of the practice, may serve for a full answer to them, who would pretend that the medicinal qualities of this metal were first found out by Chymical methods. It is certain indeed, that there is no mention of it in Hippocrates, tho' he reckons up most of the simple medicines we now have. Pliny in relating all the medicinal qualities of Steel, mentions but one way of using it inwardly, and that is, quenching hot iron in water for a Dysentery: Dioscorides quenches it in wine too for the like purpole. The same way of using it we read in Celfus, for hindering the spleen from growing too big. Atius and Oribasius mention indeed Steel properly so called, somena ferri, but only as an outward medicine in the cure of malignant Ulcers. So if we look into the writers that succeed those times, we shall find this metal but rarely used; and when it was, either inwardly or outwardly, scarce under any other notion than that of an astringent. Nay Avicenna is so afraid of its being pernicious, if used in substance, that he advises the taking a load-stone after it, to prevent any ill consequence: tho' his own countryman Rhazes often recommends this way of using it, and mentions the several forms he gives it in. Since him, I do not know, whether any body speaks of it as an inward deobstruent before Monardes, who wrote about the same time that Anatomy came to be in vogue: which as it gave a greater light and certainty into the true cause of these distempers, so it introduced some more effectual ways of removing them. And furely we bafres can

can no where have a more convincing argument than in the present case, of what great service and assistance Anatomy may be to the Practice of Phylick. For what other reasoning could induce men to use Steel in a Scirrbus of the Spleen, or Liver, than an ocular demonstration from diffections, that the cause was from an obstruction: from which matter of fact 'twas easy to infer, that whatever is most forcible in removing the obstruction, would be the properest instrument of the cure. Such is the remedy we just now mentioned, which besides the attenuating power it is furnished with, has still a greater force in this case from the gravity of its particles, which, being feven times specifically heavier than any vegetable, acts in proportion with a stronger impulse, and by that means is a more powerful deobstruent. Any one who peruses the Works of modern Phylicians, or has: ever been conversant in practice himself, will

will easily be satisfied, what great cures may be done in several chronical distempers, not only by Chalybeate Waters, but by a course of Chalybeate Medicines; and those who would persuade us, that this metal has no alterative virtue in it, must have had the misfortune to have learn't as little from other peoples experience, as their own.

BLEEDING in a fit of the Stone?, is no where so much insisted upon, as here. The Practice is certainly very judicious: especially if there be at the same time, as there generally is, a suppression of urine. For our experience tells us, that sometimes letting of blood will remove that obstinate disorder, not only when nothing else will, but without the help of any thing else.

I HAVE mentioned what he says of the Gout before: I shall only add, that he observes, it is generally look'd upon as

ever been convertable to practice himself.

an incurable distemper. He does not think it so, if a proper method of cure were taken: this which he prescribes seems very rational, and the rules both of diet and medicine are very exact and well chosen. Nothing can more fairly promise success, if any will have the patience to follow them.

BESIDES these twelve books of Alexander, we have extant an epistle of his to Theodorus concerning Worms. It is writ much in imitation of Galen's letter to Cecilianus, by way of advice for a child of Theodorus. He makes a very pertinent reflection, how very difficult it is to give proper advice upon a case communicated and related in general terms; and therefore for want of feeing the patient, and knowing every particular circumstance, he must take more things into consideration, and make his letter longer, than otherwise it might have been. He begins therefore with describing the three species of Worms; the little

little and slender called, Ascarides; the round, and the broad, or the Tania. Of the last fort he had seen one, near sixteen feet long. He treats of them either with, or without a Feaver: and describes the medicines which are proper in these cases, and in use among the ancients, and which are indeed much the same we use now, if we except Mercurials.

You will forgive me for my being fo long in my account of this Author, because he seems to me to be one of the best practical Writers among the ancients, and well worth the perusal of any modern. From some of the receipts at the latter end of the eleventh Book one would guess, he was either a Christian, or a Few. For a Pagan surely would scarce give so much credit to some, which allude to passages in the Bible, as he in appearance does. The Heathens I know did make use of charms, which confifted of words taken from the Scriptures; but it was chiefly, if not folely, ttie

in the case of Dæmoniacks: and they scarce ever applied it to other distempers. The Christians seem to have introduced this custom, as was hinted before in speaking of Ætius, and may more plainly appear, if we consult Marcellus Empiricus, who is full of these Spells, and who was without dispute a Christian.

Fabricius imagines, he has found out the Sect of Alexander, which was, he thinks, the Methodical: and wonders that P. Alpinus, who has given a full and minute account of the Methodists and their doctrine, should omit this author. What Fabricius founds his conjecture upon is, that Alexander mentions a method in the Art of Physick: it is true he does; but he does not mean fuch a method as the Methodical Sect followed, but fuch a one as Hippocrates used; and in this manner he explains it himself in another place. But the character of this Writer is very different from that of a Methodist; who, as fuch, considers only evident causes, and

and what one thing has in common with another, whether the diltemper arises from a Contraction or Relaxation, without any regard to the causes or symptoms, the age, climate, or constitution. The method Alexander uses in writing of distempers, is quite the reverse in every particular, and may be seen in almost every page. And besides that he never fo much as mentions the great distinction, which the Methodists made of diseases, and never once alludes to the Resumptive or Metasyncritical Circle, the Diatriton, &c. which they are so full of: the constant use of purging, which he advises in most distempers, and particularly in the Arthritick, is entirely repugnant to their avow'd practice. And indeed in general as to Setts, I must observe that I do not find any footsteps of them after the time of Galen, not even at Alexandria, which continued for some Centuries after to be the great School of Physick: unless we may except Vindici-

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anus and Theodorus Priscianus, two Methodifts, who lived near the time of Valentinian the second, whose Works seem only to be transcribed from the more ancient Writers of that class. Galen indeed so established the rational or Dogmatical Sect, that it prevailed ever after, and swallowed up all the others: tho to speak properly, this was not so much a peculiar fect, founded upon some singular notions, as a collection of the best doctrines, which each feet taught and em-And therefore in many things the Dogmatical Physicians agree with the Methodists, and especially in the method of cure.

Alexander mentions several Physicians, and some, who lived near his own time: particularly he gives a great character of Jacobus Psychrestus, a man very eminent for his great insight into Philosophy and Physick, which he learned from

e Malel in Vic

his father Hefychius, who had travelled into a great many countries in the purfuit of knowledge. He was made Count and Archiater to Leo the Great or the Thracian, and was so much beloved by this Emperor and the people, that the Senate let up a Statue for him in the Baths of Zeuxippus, built by Severus r. Isidore of Gaza, called by others the Pelufiote, who flourished in the time of fustinian, saw another erected to him at Athens f. And this author gives a farther account of him, that he was an Alexandrian, tho his family was originally derived from Damafous; that he had great experience in Phylick, and did many wonderful cures: that in his Practice he frequently ordered Clysters and Suppositories: that in Surgery he seldom made use of fire or the knife: and was no friend to bleeding. He was preferred to all the modern Physicians by his scholar

r Malel. in Vit. Leon.

Asclepiodotus, who grew famous for reviving the use of white Hellebore, which in that time had grown quite out of vogue, and was not fo much as known to Jacobus himself. Suidas is still larger in the praise of this Facobus, and fays he attain'd to a perfect knowledge in Physick, both in Theory and Practice: that he excell'd all his contemporaries, that he might be compared to the ancients, and was superior to many of them: that he was belov'd and ador'd by his patients, who thought him inspired from heaven; that they had an implicit faith in him, because they never found his prognostick fail. Such an eagerness had he for improving his own Art, that they thought the Soul of Afen. lapius was transfused into him. Kuster tells us he has retriev'd his true name Wixer @ out of Malelas; whereas in the former editions of Suidas it was printed we'xer : however in the translation of Ætius we read Psychristus. But I have

have reason to believe, that both these readings are wrong, and, if we confult Alexander, we shall plainly discover, that it ought to be read ψυχέχρης @ or ψυχείgong G., (for it may be either) as φιλόfor he says in express terms, that this name was applied to him, on Seawoon recon EKEXPHTO. Alexander gives him the epithet of Ocoqualisation, and Suidas after him calls him @copinis: and therefore there must be an error in the text of Photius, where he and his father it is said doeBée nonv: and whoever attends to what follows in Photius will perceive, it ought to be read EugeBée.

Contemporary with Alexander was one Uranius, who practifed Physick at Constantinople: because his character is somewhat singular and remarkable, so much that Agathias thought it worth inserting in his history; I will give you

¹ Lib. 2.

a short sketch of it here, as it is related by that Author. He was by birth a Syrian, by profession a Physician, who having not the least knowledge of Aristotle, or the ancient philosophy, had nevertheless an high conceit of his own learning, which only confifted in a fluency of expression, and a peremptoriness in maintaining whatever Paradox he advanced. He was generally found either at the Booksellers shops, or the publick Piazza's adjoining to the Court: and there disputed with several persons, who had as little tincture of learning as of morality; and that about questions of a high nature, which he argued upon with great rashness and presumption; fuch as the attributes and effence of God: fpeculations very much above our low comprehensions. Yet this gave these disputants no concern. The Club met generally in the evening, after the debauch of the day, and in a libertine manner, discoursed of the most sublime and most K 00

most difficult questions, without either convincing others or being convinced themselves: so that they parted in the opinion, which they severally were prepoffessed with, and usually ended their quarrels like gamesters, with bitter reproaches and hot words. See here the refult of their disputes; which most commonly concluded in a mutual aversion. to each other. Amongst these Uranius was one of the first rank, and made as great a buftle as Thersites does in Homer. But he had no abilities, for want of folid learning, to lay down any of his arguments in due form: which made him sometimes eager to answer doubts before they were railed, and fometimes, instead of answering objections, to ask the reason of their being rais'd. In short he constantly inverted the rules, which are ordinarily observed in regular conferences, which must always hinder the discovery of truth. He affected Scepticism in every thing, and formed his answers up-

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on the model of Pyrrho and Sextus Empiricus. He imagined, that the opinion he was of, that there could be no certain knowledge of any thing, would make him perfectly easy, and free him intirely from any remorfe or trouble of mind. His capacity being thus very mean, he could only impose upon the simple and the credulous; and if he was at a loss in any Science, he was much more fo in the knowledge of the World, and the conversation of the more polite Part of it. He frequented the houses of great persons, where having ear and drank to excess, he became the ridicule of the company: and abandoning himself to all liberties of speech, as he was often laughed at, so he was sometimes affronted and even beaten; so that he was as necessary at entertainments, as a fool or a buffoon. Uranius, as I have here described him, went with Arebindus nominated Embassador to Persia, where he acted the Impostor to a nicety, concealing K 2

ling his defects, and colouring over his actions with a specious Shew of Virtue. He had the garb and habit of a Philosopher; the first time of his appearance before Chofroes, was with fo ferious and grave an air, that it made a suitable impression much to his advantage, and procured him a favourable reception. Chofroes immediately assembled his Magi to confer with him, when many questions of natural Philosophy were started; as whether the World was from all Eternity: whether there was one Cause or Principle of all Things: Uranius, tho' wholly ignorant of all these matters, yet by his confidence supported his reputation, and he had this advantage over his adversaries, as Socrates says in Gorgias, That if he knew little, those he disputed with knew much less. This Empirick so far insinuated himself into fayour, that the King fet him at his own table, drank to him, and presented the Cup to him to pledge him, an honour he

he had never yet vouchfafed to any one else: protesting, that of all the Philosophers (and he had feen many of the most famous, who came on purpole from Greece to his Court) Uranius was the most acute and accomplished.

IT is certain a little before this, Damascius the Syrian, Simplicius of Cilicia, Diogenes of Phænicia, and Isidorus of Gaza, &c. the greatest and most learned Philosophers of the age, having an aversion to the establish'd Religion, retired into Perfia, having heard an advantagious character both of the Government and the People; that nothing but justice and equity adorned the Throne; that a perfect submission and intire obedience was the happiness of the people: that no plunderers or robbers were permitted; nothing but truth and fidelity practiced. No fooner had they arrived there, but to their regret they found the reverse; all violence and injustice was allow'd: and when they approachabele.

K . 3

ed the presence of the Prince, they quickly perceived their error; and that tho' he had the vanity to discourse of Philofophy, he knew very little of the subject he discoursed of: and the' Chofroes was convinced of their merit, yet he still entertained a high opinion of Uranius. And the reason, in my opinion, is very plain and natural, which is, that we have a great inclination to every thing which refembles us, and an aversion to whatever is above us. After Uranius's return from his travels, he received letters full of civility from Chofroes, in which he often stiled him his Master. Henceforward Uranius was insupportable: the friendship of Chastroes heightened his arrogance so, that he look'd with an air of contempt upon every body. He never was in company at table, but still he was repeating the favours he had received from that Prince, and the conferences they had had often together: fo that he feem'd to bring nothing from thele

thele foreign countries, but an improvement of pride and vanity; qualities, with which he was well furnished before his travels. The encomiums he gave of this Prince, made some impression upon the credulous, and was the occasion, that some imagined he was very learned. Those who had a great curiosity in seeking after new and strange accounts, and not being able to judge either of the person, who gave these commendations, or of him, to whom they were given, were often surprized by the artful colourings of this Impostor. It must be own'd, that Chofroes had all the qualifications necessary to form a great Captain; we can't in justice but admire his courage, never abated by age or the fatigues of War; but for what relates to learning, it must be confessed, that he could attain to no greater a height than what a scholar of Uranius could ar-Bar, is often indeed full is svij flections in his own Way, that of the

K 4 FROM

FROM this description of Agathias, one may form a true character both of Chosroes and Uranius. And the treatise concerning the Wisdom of the Indians, will convey to us much the same Idea of this Prince, who was very fond, as we shall see, of another Physician, called Perzoes.

Blondus, Sabellicus, and Twaquellus think, that Procopius, the excellent Historian, who wrote in Justinian's time, was a Physician: tho' they give no reasons for their thinking so: and therefore by others are thought to dream this. And yet if we reflect upon some passages in his Works, there seems to be ground at least for such an opinion: for in some things relating to Physick, he is remarkably more minute and circumstantial, than we find any other Historian is, even than his great admirer and imitator Agathias; who, as he was bred up to the Bar, is often indeed full of reflections in his own Way, that of the

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Law". To give a few instances; he takes notice, that the Water of the Pox To weaken'd the stomachs of the souldiers, and impair'd the digestion, that it threw them into very dangerous Loofenesses and Dysenteries: and in describing the terrible famine, which then all Amilia laboured under, he tells us, that the natural heat of the stomach was quite extinct; so that if they were not fed like children, by little and little at a time, food, if they could get it, overloaded and destroyed them: and that the Bile, which was predominant in their constitutions, gave a tincture to the whole body. He observes that the country, wherever the Sulphur of Vesuvius reaches 2, is very fertil; and that the air which furrounds that mountain is extremely fubtile and healthful; and upon this account, he thinks it is, that for many ages

[&]quot; Lib. 2. Berytus & Alexandria. Lib. 4. Court of Juffice beld by Anastasius.

x Bell. Goth. lib. 2. y ibid. z ibid.

the Physicians had recommended this climate to consumptive persons. You will not think, I hope, that I refine too much, if I should remind you, that he takes all opportunities of doing honour to our faculty. By his account, Elpidius, Archiater to Theodorica, is the person to whom that great Monarch just before his death opened his mind, and confessed the injustice he had been guilty of in taking away the lives of Symmachus and Boethius. And when Embassadors were fent to Chofroes b, during the fiege of Edessa, Stephen a famous Physician, a native of that place, who indeed had formerly been Præceptor to that Prince and had cur'd his Father Cavades, was not only appointed one of them, but was pitched upon to be their Orator at their being introduced into his presence. The fame Chofroes fomerime after, when he was treating about a Peace with Justi-

b Bell. Perfic. 2.

mian, would not so much as make a truce with him, without one condition, that Tribunus, whose skill in Physick he wanted, and was acquainted with, should be sent to him: and the Historian remarks, that as foon as this was done, a truce was concluded for five years. And in another place d, he gives a further account of this Physician, that he was a native of Palestine, his countryman; that he was one of the most skilful of his profession; that he was wise, temperate, and pious. He had formerly cur'd Chofroes of some illness, for which he was rewarded with great Presents, and returned into his own country. After the truce just now mentioned, he stay'd with Chofroes a whole year: that King offer'd to give him whatever he demanded; but instead of asking for money, he only desir'd, that some of the Romans who were captives in Persia might

ç ibid. d Bell. Gothic. lib. 4.

be fet at liberty. Chofroes at his request, not only releas'd those whom he had particularly named, but three thousand others: which made the name of Tribunus famous thoroughout the whole extent of the Empire. You will agree with me thus far at least, that Procopius represents men of this profession in no mean figure; and by the respect which we see was paid to them, we may easily imagine they then bore a character of being versed in several parts of knowledge, and particularly in all that which related to their own Art. This author has still something more applicable to this purpole, in relation to Wounds: in speaking of the Wound of which Artabazes dy'd, he is so particular as to say, an Artery in the neck was cut through, so that the blood could not be stop'd. Trajan was wounded above the right Eye near the Nosef, the Iron-head of the

e Bell. Gothic, 3.

Arrow, tho' large and long, pierced fo deep, that it could not be feen: but he expressly delivers his own opinion, it was not plain to him, he fays, where it entred, but so it was lodged, and gave Trajan no uneasines: five years after the head of the Arrow began to appear in his face; he adds, that when he wrote this, it had been making its way out by degrees for three years; and that in all appearance it would in some time all come out, without giving much pain: for then it was not at all troublesome. In like manner he gives a full detail of the Wound, which Arses had received in the face g, and relates how the Surgeons, who had a mind to extract the Dart, were in great perplexity, not only on account of the Eye, which they despair'd of faving, but of the Nerves and Membranes, which they were afraid must be much wounded by the operation, so as

to endanger his life, while it was performing. One of them called Theoliftus, pressing upon his neck, ask'd him, if he felt much pain: upon Arses saying, he did; he answer'd, then you will be cured, and not lofe your Eye: this he was the more politive in, because by that he judg'd, that the point of the Dart had not penetrated far within the skin. Then he cut off all the Dart (the wooden part) which appear'd without: afterwards made an incision into the body of the Muscles, where the pain was most violent; he took out the rest of the Dart, the head of which was Tricufpid, without any difficulty, and cur'd the Wound without fo much as leaving a Scar in his face. But the same operation being made upon Cutilas, where more force was necessary to pull out the Arrow, he fell into fainting Fits: and the Membranes of the head being inflamed, he died quickly after in a Phrensy. Bucas lost a great deal of blood, and was

was very near expiring upon the spot; which the Physicians imputed to the Muscles being wounded transversely, and not in a direct line; however he died three days after.

THESE passages, I say, might incline one to think, that Procopius had been bred up to Physick: at least they are fufficient to shew, that he had some Tincture of that Science, when he was young, before he was employed in civil affairs; and accordingly in the description of the cases here given, we may observe, that he uses the very Words and Phrases, which are familiar with the physical Writers. But not to carry the argument any further, whether he was ever of this Profession or no: I will venture to fay, he has described one Distemper with as much art and exactness, and as much in the language of Physick, as if he had been a professed Physician. This is the Plague, which rag'd at Constantinople in 543; and because the History ftory of it is not only writ in a very masterly Way, but may furnish us with several useful reflections in regard to that Disease, I shall take the liberty to transcribe it here, in Dr. Howell's Words, and add a few remarks upon it.

"THIS was a Plague, which almost " confumed mankind, of which Proco-" pius concludes, there was no other " cause, than the immediate hand of " God himself. For it neither came " upon one part of the World alone, " nor in one season of the year, whence " fubtile Wits (as he faith) might fetch " pretentions. It afflicted the whole " World, and all conditions of Men, " tho' of never fo contrary a nature, " and disposition; sparing no constitu-" tion nor age. The difference of men " as to their places of dwelling, diet, " complexions, inclinations, or any " other thing, did no good in this Dif-" ease. Some it took in Summer, some cc in

" in Winter, and others in other Sea-" fons. It began among the Ægyptians " of Pelusium, and spread to Alexandria " with the rest of Ægypt one Way, and " the other to those Parts of Palestine, " which border upon Ægypt. From " thence it travelled to the utmost " bounds of the World, as by set jour-" nies and stages, making destruction " its only business, and sparing neither " Island, Cave, nor top of Mountain, " where mankind inhabited; for if it " leap'd over a country, returning af-" terward, it left it no cause to rejoice " above its fellows. It began still at " the Sea-coast, and thence went to the " inland Parts. In the second year of " its progress, it arrived at Constantino-" ple about the middle of the Spring, where it was the fortune of Procopius " then to reside: apparitions of Spirits " in all shapes human were seen by ma-" ny, who thought the man they met " struck them in some part of the bo" dy; and so soon as they saw the Spi-" rit, they were seized with the Disease. " At first when they met them, they " repeated divine names, and fled into " churches to no purpole. Afterwards " they were afraid to hear their friends " call them, locking themselves up in their chambers and stopping their " ears. Some dreamed they faw fuch " fights, others heard a voice tell them, " they were inrolled in the number ap-" pointed to die: but most without warning became feaverish suddenly: " their bodies changed not colour, nor " were hot; the Feaver being so remiss "till evening, that neither the patient " nor physician, by his Pulse, could " apprehend any danger. Yet to some " the same day, to others the next, or " many days after, arose a Bubo both in 56 the groin, the arm-holes, under the ear, and in other parts: these were " the general fymptoms which happened alike to all the visited persons. "THERE

"THERE were others different; " whether so made by the diversity of " bodies, or the will and pleasure of him " that sent the distemper, our author " cannot fay. Some were seized with " drowfiness and slumbering, others " with a sharp distraction: the slum-" berers forgot all things; if they were " look'd to, some would eat, some, that " were neglected, starved to death. Those " who were distracted were vexed with " apparitions, crying there were men to " kill them, and running away; being " so troublesome and unruly, that their " keepers were pitied as much as they " themselves. No Physician or other " caught the Disease by touching sick " or dead bodies; many strangely con-" tinuing free, though they tended and " buried infected persons, and many " catching it they knew not how, and " dying instantly. Many leapt into " the Water, though not for thirst; " and some into the Sea. Some with-

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" out slumbering or madness had their " Bubo gangrened, and died with extreme " pain; which doubtless happened also " to those that had the phrensy, tho " being not themselves they understood " it not. Some Physicians hereupon " conceiving the venom and head of the " disease to lie in those Plague-sores, " opened the dead bodies, and fearching the fores, found an huge car-" buncle growing inward. Such whose "bodies were spotted with black pim-" ples the bigness of a lentile, lived not " a day. Many died of vomiting blood. " Some that were given over by the " most eminent Physicians, unexpect-" edly recovered; others, of whose re-" covery they thought themselves secure, " suddenly perished: no cause of this " fickness could be reached by man's " reason. Some received benefit by " Bathing, and others it hurt. Many " died for want of cure, and many ef-" caped without it: in a Word, no " Way

"Way could there be found of preserva-

" tion, either by preventing the Sickness,

" or mastering the Disease, no cause ap-

" pearing either of their falling fick, or

of their recovery.

" WOMEN with child which were " visited, certainly died; some miscar-" rying, some fairly delivered, and pe-" rishing with their children: three Wo-" men only were fafely brought to bed " and recovered, their children dying; " and one died whose child had the " hap to live. Such as had their fores " great and running plentifully, esca-" ped; the violence of the Carbuncle " being thereby asswaged, and this was " the most certain sign of health. Such " whose sores staid as they first arose, " underwent the miserable accident for-" merly mentioned. Some had their " thighs withered, when the fores role " upon them and did not run. Some " escaped with diminished tongues, and " lived stammering, or uttering sounds " without distinction all their days. " In Constantinople this Pestilence lasted " four months, raging three months " with all extremity. In the beginning " few died more than usual. Then it " growing hotter and hotter, it came " to five, and at last to ten thousand, se and more every day. At first they " buried their dead carefully, but at " length all came to confusion, and ma-" ny lay long unburied. Servants were " without Masters, rich men had none " to attend them. In the afflicted Ci-" ty was little to be seen, but empty " houses, no trade going or shops open. " The Emperor was much concerned, " as he had reason, and committed " the overlight of the poor to Theo-" dorus, one of the Referendarii that " subscribed the Emperor's answers to f petitions; who to those that were in " want, distributed money out of the treasury. To these passages Procopius adds, that many out of fear left their -rhim

" bad courses of life and consecrated " themselves to God; and many when " the danger was over, fell to their old " despising of God again." And so he ends the description of this Pestilence. Dr. Howel proceeds, and fays, " That " though it continued but four months at Constantinople, yet Euagrius, who " both himself and his family was " visited with it, tells us, it lasted the " space of two and fifty years; prevai-" ling so much, that it destroyed in a " manner the whole World. Seeing " then that it outlived Procopius, no " wonder if in so long a time, and so " various climates and countries, it " changed its symptoms, and varied " fomething from those accidents which " fell out in his days. Yet the descripce tion of Euagrius differs very little " from that of his. He affirms, that in " fome things, it resembled the Plague " of Athens, described by Thucydides, and in other respects was far unlike " it. That it began in Athiopia as the " other did, but exceeded all that ever " were before it, and confidering how " long a time it raged, and flitted up " and down, he admires that Philostra-" tus should wonder at the Plague which " happened in his time, because it con-" tinued fifteen years together. But " whereas the History of Procopius was " fufficiently known to the World, and " particularly to Euagrius himself, who " has taken, as all learned men know, " much out of it, it's a greater Wonder " he should say, that the History of this " Plague was not penned, 'till the time 65 he undertook it; for we cannot in the " least imagine, but it was the self-same

" Plague they both speak of."

As Dr. Howel observes, it was no doubt the same Plague they both speak of, (i. e.) the Plague which lasted 52 years, and began in the East, as Agathias relates, in the fifth of Justinian: tho' to make his account agree with that of Procopius,

it shou'd be read, I believe, the fifteenth. But there is this further distinction to be made in the case, that Procopius only described it, as it appeared the second year at Constantinople; and that Euagrius gave such an account of it, as fell within his own obfervations many years after, as he assures us himself: for when it first began, as Procopius relates, he was then but a child and learning his Grammar b, tho' indeed he had the Plague at that time. So that we may easily perceive the true reason, why these authors differ in some points. The latter, for example, relates one circumstance as very wonderful, that no native of an infected town, tho' he was in a region distant from the Infection, found any advantage in changing the Climate: for such a one was sure to be singled out as a facrifice to this distemper, which raged among his countrymen. A fact, in which perhaps the veracity of the author

would have been called in question, had not there been a parallel instance, in more modern times, as will appear in its proper place, when I come to speak of the Sweating Sickness. The same Euagrius says, that this Plague resembled in some things that of Athens, described by Thucydides; and in other respects was far unlike it; but mentions no particulars, which indeed are many. The very manner of spreading itself was different. Here they sometimes died instantly, or the first day, as those who were spotted with black Pimples, or at least in a few days. And Agathias, who describes the same Plague upon its second return at Constantinople in 5 5 8 , expressly fays, that most of them died in a moment, as in a strong Apoplettick Fit, and that those who had the most natural strength, never outlived the fifth day. In that of Athens, the distemper run out to the feventh or ninth day, which were the most

usual days of mortality. In that, every body was infected, who came near the fick: here it is particularly said to be far otherwife. The Stupor which feiz'd them at first, the rolling about the ground, what he obferves of a Bubo, and of Women with child, do not occur in Thucydides. Galen, in comparing the descriptions of the Plague, as they are given either by Hippocrates or Thucydides, takes notice, that the latter described it only as any common observer would, and not as a Physician, and enumerated every circumstance, which he remark'd, without any distinction. Procopius, I think, may be said to have described it in both capacities: such are the observations just now mention'd, about Women with child, three of which only recovered, and of a Bubo, the running of which was first taken notice of by him as the most certain sign of recovery, and is so found by experience to be to this day in the like case. He talks in the way of a Physician, when he mentions the several

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methods which were tried, and where they failed, as Bathing, &c. the different fymptoms they were taken with; and particularly with regard to the Feaver he tells us, the bodies did not change colour nor were hot; and the Feaver was so remiss till the evening, that not even the Physician, by the Pulse, could apprehend any danger. You will perceive in reading Thucydides and Lucretius, that they had no other way then of judging of the Feaver, but by the touch of the body: the art of feeling, and forming a judgment by the Pulse being of a more modern date. He shews us, how little the Physicians were satisfied with the caufes affigned for this distemper; and therefore in order to a further knowledge, they opened the bodies of those who died of Plague Sores, and found a huge Carbuncle growing inwards. And from hence by the way we may learn, that Physicians in this Age, were not defective in any part of knowledge, which contributed

buted to the improvement of their Practice: and that in particular as they did exercise the Art of Anatomy, which is plain from this place, so they made the right use of it in applying it towards finding out the causes of distempers, and their several symptoms. One thing is very observable in this history, with regard to Contagion. Procopius informs us, that no Physician or other caught the disease (I suppose he means, not for that reason only) by touching sick or dead bodies, many strangely remaining free, tho' they tended and buried infected perfons: Euagrius adds, that the for the most part it was catching, yet some, who continued with the fick, and were weary of their lives, cou'd meet neither with the distemper nor death: and without dispute in all epidemical diseases, tho never so contagious, instances will be found, where the Infection has not been communicated to every individual. But that Procopius himself thought, that it was propagated by Contagion, whatever might be the original cause, is plain from what he further remarks, that it began constantly at the Sea-coast, and from thence diffused itself into the Inland Parts: a matter of fact, which is a better argument than any reasoning, how far this distemper may be imported and spread by commerce and communication, which indeed was the general opinion in the early ages.

I WILL carry this digression, if it be one, no further; but will return now to speak of the fourth and the last of the old Greek Writers, as I at first proposed. This is Paulus; who tho' placed by Mr. le Clerc as high as the fourth Century, lived however in the fewenth: and who, tho' he was a compiler, is still very different from Oribasius (as we have him now) and Ætius: he transcribes a great deal from Alexander, not only the Sense, but the very Words. He was born in the Island Ægina, was a great traveller, and had opportunities of seeing

feeing a great deal of practice in different countries. One may commend him so far as to fay, that his descriptions of diftempers are short and full: and, how great a copier soever he be, one thing is remarkable in him, that he treats particularly of Womens distempers, and seems to be the first instance upon record, of a professed Man-Midwife: for so he was called by the Arabians, and accordingly begins his book with disorders incident to pregnant Women. he deferibes the d

WE owe some fragments of the ancient Physicians to Paulus; particularly the letter of Diocles to Antigonus, concer-

ning the preservation of Health 4.

But let us consider this author a little more distinctly, notwithstanding some have represented him in so mean a figure, as if nothing of moment was to be found in his Writings. I shall confine my self only to his fixth Book: in which I will

venture to fay, he is much more than a bare collector. This book contains an account of chirurgical Operations only, and which one may call the most compleat body in its kind, at least of any before the restoration of learning. I mean the Operations, which are manual; for external applications to Wounds, Ulcers, &c. he treats of at large in the fourth book. 'Tis very plain from this treatife, that he performed operations in Surgery himself: he describes the different methods, which were made use of by the ancients, by his own contemporaries, and by himself. He relates the good or bad success in several of them: and writing upon this fubject, he is so far from being a mere copier, that he sometimes dissents from Galen', and seems to prefer a more modern experince to his. So in the chapter about an Aneurysm", after having quoted what Galen says upon this article, he interposes his own opinion concerning the method of cure. The like he does with regard to Leonides (an author often quoted by him and Ætius) in the treatment of a Hernia Varicosa. Nay, he is so far from blindly following the ancients, that he is not satisfied with what Hippocrates himself says, about setting a broken nose, but subjoins a more modern practice, which he seems to prefer.

AND what if this compiler at last should acquaint us with several things in this Art, which have not been observed, as far as it appears, by any of the more ancient Writers? yet this, I believe, upon examination we shall find to be true: especially if we compare him with Celsus, who has given us the most perfect account of Surgery, as it stood in the times of the ancients, and in his own; and to which indeed very little addition

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was made in the time of Galen. In feveral points Paulus is fuller and more particular; as in the cure of a Hydrocephalus, in performing the Paracentesis either in the Thorax, or the Abdomen, &c. and in extracting the Stone from the bladder. However Celsus excludes all under nine, and above fourteen, from this last operation; yet our Author allows it in a middle, and fometimes in an advanced age, tho' he owns it succeeds best in the younger years. He has this further remark upon this operation, that the incision thould be made not exactly in the middle of the Perineum, but rather obliquely on one side, (the left) towards the buttock: and that it ought to be large externally, tho' on the infide no bigger, than to allow a passage for the stone. There are other particulars in this Treatise of Surgery, which feem to be intirely new: he treats of the fracture of the Patella, a

case indeed which seldom, he says, happens, but which our Surgeons often meet with. Celsus makes no mention of it. He opens the Jugular veins p in obstinate rheums of the eyes; an experiment never tried, as far as we can trace, by any Writer more ancient, except Alexander, who used this way of bleeding in a Quinfy 9. Paulus describes the manner of dividing the Arteries behind the ears, as in an inveterate Ophthalmy and Vertigo: contrary to the aphorism of Celsus, who says an artery once divided cannot unite. Yet Aretaus we know often did, and Galen sometimes, order an artery to be opened, as we shall fee more at large. As he uses Cupping frequently, he seems to have invented a new instrument or scarificator, with three points, or fleams, so as to make three incisions at once.

THE chapter concerning the extraction of Darts and Arrows, &c. is

p 40. 9 4, 1. r 41. 186.

very remarkable, and contains many excellent rules: and the description he gives of that sort of Weapons then in use among the ancients, particularly the Ægyptians, is very curious, and clear, as well as concise.

HE is very full and exact in describing the several forts of Hernia's, particularly the Intestinal s: he gives the different causes and symptoms of it, as it proceeds either from a rupture, or the distention of the Peritoneum: by which the Gut (part of the Ileon) which lies upon the productions of this membrane, may easily fall down either into the Groin or the Scrotum. And therefore in fome cases it is necessary to make an incision, in order to replace the Gut; the whole operation is here very accurately and circumstantially explained, much more so than it is even in Celsus: a way of practice, which the ancients we fee

were well acquainted with; which Rouset, Parey, and Hildanus recommend, and which has been revived by some eminent hands among out felves. Celsus indeed says, that 'tis an application, which only puerilis atas & Modicum malum recipit: and the two last authors mention'd, advise it only in cases of extremity, as the last refuge: and 'tis certain that in their time the practice was almost quite out of use; tho' the instance Hildanus' gives us of one above feventy, whom he cur'd this way, may convince us, that the operation is not only fafe, but would do better, if used at first,. before there can be any danger of a Mortisication. Barbette proposes a way of cutting through the Abdomen in an Iliac passion, where there is an introsusception of the gut: if such a method be practicable in this case, one should think it ought rather to be artempted, in fai-

t Cent. 6, 73.

lure of other applications, where the distemper proceeds from either of the Hernia's described; especially when there feems to be as little danger in cutting thro' the Epigastrium, as there is upon the processes of the Peritonaum. Accordingly Rouset gives us three instances, where the operation was actually performed; one by a Mountebank, and the others by Surgeons of repute at that time. An inguinal Hernia, according to all authors, is only the beginning of an intestinal; the gut they say must descend by the groin first, before it can pass into the Scrotum; and therefore Paulus says, that a Bubonocele always precedes an Enterocele. Accordingly all Anatomists, as well as Surgeons, have agreed, that in a Bubonocele the gut comes down thro' the rings, or perforations of the abdominal Muscles. But tho' no doubt this be often the case, yet perhaps, if we examine the matter a little more nicely, we shall find, that the gut may take another onul

other course, hitherto unobserved, to produce a Bubonocele. The cavity in the thigh between the muscles Pettineus and Sartorius, where the crural vessels descend, is very remarkable: and the tendons of the abdominal muscles lie so loose, that there is nothing but a little fat, and some membranous fibres, which separate it from the abdomen: fo that we see, how easy it is for the Peritonaum to be forced down by any pressure, thro' this interstice into the cavity we have described : especially fince, confidering our erect posture, it lies in a more direct line than even the rings of those tendons. And if we compare the accounts of those very authors, who think that a Bubonocele is always formed in the processes of the Peritonaum, we shall find them often agree to this place only. Acquapendente remarks, that a Bubonocele and a Varix of the crural vein, have often been mistaken for a Bubo, in which case, upon incision, the vein or the gut has been cut, so as

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to endanger the person's life. Bubo's we all know, are always in those glands, that lie upon the crural vessels; and therefore 'tis plain he thinks in many instances, that a Bubo, and a Bubonocele are in the same place, that is, in the place we have taken notice of. Upon this account too it seems to be, that Celfus calls a Bubonocele, a Varix Inguinis. The late Mr. Serjeant Bernard was concern'd in a case, where the gut reach'd under the skin down to the middle of the thigh: in which instance, it must descend thro' the interstice under the tendons of the abdominal muscles; for if it had come down thro' the rings, it must have gone directly into the Scrotum, and not turn'd down the thigh. And Barbette seems to imply this way, tho' he has expressed it with the same obscurity as other Writers do, when he says, experimur etiam processim Peritonai ita posse disrumpi, ut jatestina non in Scrotum, sed inter cutim Musculos, versus femur, sese urgeant. Where, by the Words processim Peritonei, if he means the productions, which arise from the Vaginal coat, we have feen that the gut cannot get into the situation he describes. Perhaps it may give us a little more light into this matter, if we consider the Inguinal Hernia in Women: Fallopius deduces it from the round ligaments of the Womb, which make the same perforations in the tendons of the abdominal muscles of that Sex, as the spermatick vesfels do in Men. 'Tis very true they do, but not in the same place: for these rings in Women lie just upon the Os Pubis; and the ligaments, as foon as ever they are passed thro' them, are strongly inserted with the tendons into the bone. So that by the straitness of the passage, there feems to be little room for a Hernia here; and if there were, the gut must lie just forward upon the Os Pubis: as indeed we find sometimes it does, even as far as the very Labia Pudendi. But I believe in such ruptures, 'twill be found

generally to take its course much more aside towards the Os Ilium. And therefore Celsus expressly fays, that a Hernia in Women fit præcipuè circa Ilia. That the Peritoneum may be distended in this place, is plain from the account Nuck gives us of a dropfy in this membrane, which spread itself, he says, and formed a fack in the thigh, per vacua Musculorum spatia. And Hildanus, in explaining the reason of a Hernia Uterina, thinks the extension of the Peritoneum happened circa foramina illa, circa que Bubonocele fit in Mulieribus: and if we compare these words, which are ambiguous enough, and perhaps left so on purpose, with the description of the posture that is given of the tumour, we shall find them only applicable to the interstice we speak of. How capable the Peritonaum is of a large distention, an Ascites alone will fufficiently convince us; and that fuch a distention, as there is generally in the present case, without any rupture, may

may happen, not only at its productions in the groin or the navel, we may find sufficient proof in the Writers of Surgery. Barbette gives instances of such Hernia's in the back, above the navel, below the navel, longe supra Ilia, he fays, which have been by mistake cut for an Abscess. Paulus indeed distinguishes the intestinal Hernia, as it proceeds either from a rupture, or a distention of the Peritonaum: and says expressly, that this operation by the knife is only to be attempted in the latter case. But whoever with attention confiders the Anatomy of these parts, must, I think, be of a quite contrary opinion; for in a rupture of the Peritonæum, if this operation be performed, and the gut once reduced, we may conceive, how all the parts of the Peritoneum, as well as the rest, may be so healed and united, so as not to give way to any descent of the gut for the future. But in the case of distention, if after the operation, the Perito-

Peritoneum remains distended, as it must, how is the return of the Hernia prevented? To form a right notion of such a distention, one ought to see the curious preparations of that diligent and accurate Anatomist, Dr. Douglas: who is the first who has given us any true Idea of the Peritoneum; a part which is so much concern'd, and whose structure should be so much considered, not only in this operation, but in the High-way for cutting for the Stone. He too is the first, who has plainly shewn, that the elongation of the external Lamella of the Peritonaum, does not form the Vaginal Coat of the Testicles, as Authors say, but a coat peculiar to the Seminal Veffels, which he very properly calls Tunica vasorum spermaticorum propria. And he afterwards observed in reading Paulus, that this coat was known to, and described by him, by the name of in ment is from the many contorsions there are in those vessels, which it covers. Cornarius and the rest of the expositors, not having any notion of such a coat, correct this word, and would have it read έρυθερειδής, and so confound it with the Vaginalis.

ANOTHER operation which Paulus describes, is the manner of opening the Arteries behind the ears, * in defluxions and other diseases of the head: the practice indeed in general, is as old as Hippocrates, and touch'd upon by Galen; but the way of doing it is here more precifely specified, either by a transverse Section and applying a Cautery after, or by Excifion. The words of "Paulus very fully explain the first method, and he gives an account in the next chapter of the fecond: which we may suppose was the more common of the two; for Areteus, who is always very exact in his expresfions, mentions no other Arteriotomy, than this last. * These were the two me-

x inlauver. 1, 2, 3.

^{* 6, 4, 5. &}quot; Starturer, Statpéer.

thods in opening the Arteries, which were observed, not only in the Greek, but the Arabian, school. One would wonder therefore, how some moderns should imagine, that the ancients used the same way of bleeding in Arteries, as they did in the Veins, i. e. by making the incision with a Lancet. There is indeed one, and the only one instance which I can find upon record, where Arteriotomy can be suppofed to be performed in this manner; and that is in Galen 2: who, as far as I can comprehend his meaning in his treatife of curing diseases by opening a blood veffel, seems to be the first who ventur'd upon it, and made the experiment upon himself. He was dangerously ill of a pain that seiz'd him near the Diaphragm, and was admonished twice in a dream to try this practice; and accordingly he did try ie, in opening the Artery between the thumb and the fore-finger, so as to let

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y Rhaz. ad Almanz. 9. 1. & Curat. per V. S. 13.

out near a pint of blood: by which his pain was immediately eased, and his life faved. He gives you the like instance of a Priest being recover'd of a desperate Pleurify, by opening the Artery in the hand. This, he fays, put him upon the practice of opening the Arteries in the Hand and in the Head, in all violent fix'd pains which proceed from heat, and especially those of the Membranes. He tells us in the fame place, that he had feen the Artery in the Ankle, after a Wound there, unite without leaving an Aneurysm: and in another 4, recites a parallel case, where a puncture had been made by mistake in the Artery of the Cubit; the incision he observes was very small; and for that reason perhaps was the only instance, in which he ever faw this Artery close, as it did in four days: for in all other accidents of this nature, he always found an Aneurysm succeed. He adds an ob-

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a Meth. Med. 5. 7.

fervation concerning Wounds in the Arteries, that they are less dangerous in Women and Boys: in whom he supposes the coats of these vessels are less stiff, and therefore easier united. Both the methods of Practice we spoke of at first, are very rough and painful, and yet were in frequent use: but this, by the Lancet, is so easy, that one would be surprized to find, it was scarce ever perform'd amongst the later Greeks after his time; as we may fee plainly from this Author and Actuarius, it was not. And what may make it still more surprizing is, that when the Artery lies superficial, and near a bone, there does not feem much difficulty, and much less any great danger in the Practice. Such a one is the Temporal Artery; and therefore some of the moderns have ventured to open it in almost all diseases of the Head, particularly Hemicranies. Parey , who without

b Meth. Med. 3, 4.

doubt was a good Practitioner, tells us, how serviceable he found it in this case, not only in a Patient, but in himself, after all other remedies had been tried in vain. And he makes this remark upon it; that he had found by long experience, that the opening an Artery by the Lancet was not so dangerous, as was commonly imagin'd; but that it wou'd confolidate as well as a vein, only with the allowance of a little more time; and he never knew it bleed afresh, if the compress was kept on, as it ought, for four days. It is a very extraordinary history which an author of great credit, Gesnerd, gives us in his Epistles, of a Surgeon at Zurick, who having been annually afflicted with a violent Hemicrany, was advised by him indeed to open the Temporal Artery; but being impatient of his pain, he took his own way of doing it, and cut it transversely himself, from

er samuel bold & 3, 96. gund) visito ;

which he let out three pints of blood: the pain returning, he repeated the fame bold experiment again, and perfectly recover'd. And how practicable an incision is in this Artery, we may be eafily convinced by what Meckeren e relates, that in a dozen times, wherein he performed this operation, he never met with but one accident, which happen'd thorough the carelessiness of the Patient, and nor thorough any fault in the operator. And the better to fecure it after incilion, he gives us the description of a very near and proper bandage, which he always made use of. And it may be remark'd once for all, that Prosper Alpinus faw i not only the Temporal Arteries, but those behind the East, in the Forebead, in the Ankle, &c. as commonly opened by the Ægytians, in many chronical distempers, as veins: and for all inward inflammations they open'd the

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e Observ. Chirurg. 38. f Med. Ægypt. 2, 12.

very same Artery which Galen did in a like case, that between the thumb and the fore-singer. He relates the manner of their performing this operation, both as to the incision and the bandage: and observes, that among all the instances he was an eye-witness of, he never saw one miscarry, not even so far as to have an Aneurysm succeed. Many examples of the same kind may be met with in Severmus?

Thus far as to point of fact. The intentions of opening an Artery are reducible to derivation and revulsion: tho' I can't see but in every instance, they are intirely design'd for revulsion. For example, when the pain is in the fore-head or coronal Suture, does not opening the occipital Arteries or those near the ears, as Oribasius (from Antyllus) directs, evidently make a revulsion; tho' Severinus affirms, it causes a derivation: when at

g Chirurg. Effic. 42. 45.

the same time he says, not very consistently with himself, that when the pain is backward, opening the anterior Artery does revel. I shall only observe so much of revulsion now, that the effect of it very much consists in its being sudden: while an Artery is bleeding, it is plainly evident to our fenses, how much stronger and quicker the revulsion must be, than in opening a vein and by that means how much more liberty is given to the vessels, from whence the revulsion is made, to exert their natural contractil force and throw off the load which obstructs them, having now no relistance from the blood to contend with. And the revulfion is still much stronger, when the blood is intercepted, as the case is, when the Artery, which leads to the part affected, is opened: and this is a revulsion, which in no instance can be made in opening a Vein. But however reasonable this operation may be, the posfibility of losing some reputation tho-501 rough rough the carelessness of others, I doubt will hinder its ever coming into vogue: tho' surely it is very hard that a Surgeon must be forc'd to guide his skill by considerations, which are intirely foreign to his Art.

THE subject naturally leads me to that accident, which happens upon any breach or wound, and sometimes, as has been hinted, upon a small puncture in the Artery, an Aneurysm; and here you will find our author has some particulars b, omitted by those who wrote before him. For after he has repeated what Galen said upon the same argument, he adds some new observations of his own: and makes an accurate distinction between those that arise from an Anastomosis, and those which follow upon a rupture in the Ar-The former are more oblong and lie deeper, and upon the impression of the finger, make a fort of noise: the

b 6, 40.

crebro

other are generally more superficial and rounder, without any such noise attending them; and in both cases he suppofes the blood extravasated. Ætius i pronounces Aneury sms which are in the head and the throat desperate, and dissuades the attempting any cure of them; only advises us to apply the Plaster of Cy-The manual operation he confines wholly to Aneurysms in the Arm. But Paulus, tho' he judges it not fafe to make any incision in those of the Armpits, the Groin, or the Neck, or indeed any where else if they are large, on account of the bigness of the vessels: yet disagrees with Ætius so far, as to think those in the extreme parts, the joints, and the bead particularly, proper subjects for Surgery. He describes indeed the operation very exactly, and in each fort of Aneuryfins he had before taken notice of: after having made the ligatures, he

^{4, 3, 10.}

orders the vessel to be divided; and expressly says, we ought to tie the Artery not only above the aperture but below it too, as our own Surgeons do now: in both which points of practice the Dutch Surgery is notoriously deficient, as we may collect from * Barbette, and see more at large in two cases, the one related by Ruisch in his second observation, and the other by Nuck in his twenty ninth experiment.

Aneurysm, give me leave to speak more at large of it; and you may think it perhaps a less impertinent inquiry here, if you reflect, what disputes there have been, what uncertain and precarious accounts have been delivered down to us concerning it. An Aneurysm by Galen, and we see here by Paulus, is described to be a Tumour, which rises from arterial blood extravasated; and that it

clotted

[¿] Chirurg. 144.

proceeded from a Rupture in the coats of the Arteries, was the constant opinion of all the Greek and Arabian Writers. Fernelius was the first, who afferted, that the Artery was only dilated, but not burst in an Aneurysm. And Vesalius feems to be of the same opinion: for Adolphus Occo gives us the relation of a patient he had the care of, in conjun-Ction with Achilles Gafferus: the case was a Tumour in the back, and that excellent anatomist being called in, soon discover'd what it was by the pulsation, and pronounced it an Aneurysm, arising from a dilatation of the great Artery. And at the same time he said, that the blood was contained within the coats of it, as 'tis in those of a vein in a Varix: that he had found in these swellings fomerimes a humour concreted like Ice, or Crystal, sometimes like Suet, and fometimes blood grumous like a Mola. Upon diffection, the cavity of the Aorta was found vastly distended, and much clotted

clotted blood in it, as Vesalius had foretold, which gained him a great reputation. That the Arteries are capable of distention, we find often in persons who are poison'd, and in some morbid cases. 'Tis a remarkable instance which Vidus Vidius relates, and owns it to be a rare one, of a prodigious intumescency in all the Arteries of the head quite round, so as to resemble large Varices. He adds, that Fallopius having undertaken to open it, just as he was going to attempt the operation, being discouraged by the bigness of the Tumour, altered his opinion, and would not proceed. But such a distention as this, which spreads itself equally thorough so many branches, wou'd scarce, I believe, be called an Aneurysm, which is a Tumour of a quite different nature, and more circumscribed.

Semertus refining upon the notion of Fernelius, and not satisfied with a bare dilatation, makes the nature of all Aneu-

rysms

ryfms to confist in a rupture of the muscular, or inner-coat of the Artery, while the outer in the mean while remains unbroken. It seems to me very plain, that he borrows this doctrine, tho' he mentions nothing of it, from Hildanus, who in express words said the very same thing before him. The case Hildanus describes is that of an Aneurysm, succeeding upon a Puncture: and in that case it may possibly happen, as he conjectures, that the outer-coat may upon compression unite, being compos'd of membranous and very glutinous parts, as is evident from all glue being extracted from such skins; but the fibres of the inner-coat being mufcular, when they are once broken, must of course contract, and shrink up, and by starting from one another, be more difficultly brought to a re-union. And I can scarce think it well conceivable, that any other Aneurysm can be form'd in this manner, than that only, and that

that not always, which comes upon a Puncture: for it does not seem probable that, when the cause is intrinsecal, a force, which is supposed able to burst the inner-coat, should find any refultance from the outer, which is own'd to be at least five times weaker. But, however, the notion we have mention'd, though scarce so much as plausible, was embraced by Willis, Barbette, and others, and became the fashionable definition of an Aneurysm for many years. And indeed, since the opinion of the blood being not extravasated was first started, it may be observed, that all the writers of Bodies either of Physick, or Anatomy, have run into this Hypothesis, without knowing much of the subject they writ upon, or indeed of what they writ upon the subject. To give an example = Forestus contends vehemently, that all Aneurysms come from a dilatation of the Artery: and yet in the very instance, which is the only one in his works, he: gives us of an Aneurysm, the tumour came from a rupture, and the blood was extravasated. And Diemerbroek in complaisance to the doctrine then in sashion, defines an Aneurysm, in opposition to Mr. Regi, who was for a rupture in the Artery: then he tells a story of an Aneurysm, where there was a rupture, but at last judiciously concludes, that twas no Aneurysm at all: for no other reason, but because there was a rupture, and so consequently did not come within his definition.

THE chief arguments, which the affertors of dilatation urge, and which those who acknowledge a rupture in the Artery are at a loss to answer, are only two: how comes it to pass, if the blood be not confin'd within the coats of the vessels, that there is a Pulsation in an Aneurysm? how is it, that the blood, if extravalated, does not turn to Pus? As to Pulsation, it may I presume be easily conceiv'd, how the constant impulse of

the blood in the Arteries may communicate a motion to that, which lies contiguous to it, though extravalated. The force of percussion is vallly great: and we find by experiment in a bladder full of air, the least fresh impulse from a Syringe will move all that is contain'd in it, and distend its sides. If the Artery is large, if it lies superficial, and near the center of the tumour, and if the Aneurysm be not diffused no much lengthways, the Pulsation will be strong, though the coat of the Artery be burit. And this may be prov'd not only from reason, but from matter of fact. We have a case in Severinus, where, upon a wound in the great Artery of the thigh, there was an effusion of fix pounds of blood in the interstices of the muscles; there was so violent a Pulsation in the swelling, as to lift up both one's hands, when laid upon it. When the Aneurysm lies deep among the muscles, very often the Pulsation is not sensible. We may

may add to this, that it may grow more obleure, and at last be utterly extinguished, as the coagulation of the blood increases: and of this we have instances both in Severinus and Mr. Littre, where the Pulfation was very violent at first, and afterwards intirely vanish'd. And therefore we mult not look upon this as a constant concomitant in the present case. Indeed in most swellings, we ought rather to argue negatively; and if we are not fure of Pas, we ought always to be suspicious of an Anewysin! and for want of this prudent fear, forme have miltaken, and fatally cut it for an Abscess. What has been said of Pulsation may let us into the solution of the fecond objections for if we can conceive, how there can be a motion communicated to the Tumour, we may naturally and eafily comprehend, how the same motion may preserve the blood from putrefaction, as well as if it were contained in the coats of the Artery, inlarged

by diffention only. A very little degree of impulse will serve to hinder a large mass of any fluid from an intire stagnation. Accordingly, in an Ecchymofis, the extravalated blood, we see, very often never suppurates, or, when it does, there is some part of it found turn'd to a red Coagulum, distinct and separate from the rest, without any mixture of Pur. The very case we have already mentioned in Severinus, comes up to the purpose: where, after the Tumour had been growing forty days, there were taken out of it fix pounds of pure blood, extravalated between the interstices of the muscles, and it had no fort of tendency to Pur. Besides I believe the very position, which these Writers lay down, that all extravafated blood turns to Pus, may be justly questioned: what quality itis in the blood, or what particles they are, which dispose it to suppuration, is a Problem, I confes, difficult to be solv'd: but sure I am, there is something in arterial blood, which which often hinders it from being changed into Pus, tho' extravasated.

THUS wee see, how insufficient these arguments made use of are to overthrow the opinion of the ancients: and we shall find that experience itself, from diffections in these cases, generally decides the controversy in their favour. For to return to the very case, where we mentioned Vefalius before, (which indeed is the first history of an Aneury sim diffected, that we meet with) besides a dilatation of the Artery, there was a large rupture, as Achilles Gafferus, one of the Physicians concern'd, gives us an account. Saporta, who was contemporary with Fernelius, and feems to have him in his eye, tho' he does not mention his name, relates three cases with all the particulars, where the Artery was burft. The first is singled out, and repeated at length by Sennertus, who pronounces it to be no Aneury sm. Though I can't imagine, why he chose this case to object against, when dairlw

when of all the three twas the most distinct and least liable to objection: for upon dissection, a great deal of pure blood was taken out, and the Artery dilated and burft; and while the patient was alive, the Tumour had a great Pulsation, and receded upon pressure. And if this be not a true Aneury sm, I can't tell what Words can be found out to describe one. Bartolin gives us the history of several Aneurysms dissected, particularly of one at Naples, which he has made the subject of a book, writ indeed in a Romantick style, but where the fact is clearly enough delivered. This was in the arm, and happen'd from a puncture: the arm was cut off, but the patient died. The axillary Artery was vastly dilated up to the armpit; it was whole only, where the puncture had been made: on the other fide, all the coats were burst, and the branches, which came from it, could not be traced. As it lay superficial, there was grumous blood lying along all the tract

tract of the muscles. Van Horne, in his epistle, which is printed with this treatile of Bartolin, has another very remarkable case: because the instance may suggest to us several practical reflections, give me leave just in short to relate the particulars. This was a Tumour in the calf of the leg; Antonius Vacca pronounced it an Aneurysm: others were of a different opinion, and outvoting him prevail'd, and treated it for an Abscess. This method made the fwelling extend itself to the very toes, and there occasion'd a gangrene: so that they were forced to cut off the foot above the ankle, for fear the mortification should spread up to the thigh. The third day after, they attempted to open the Tumour, and the patient died in the middle of the operation. Tho' the Artery was dilated, so as to be fix times bigger than natural, the fide towards the skin was eaten thro' and burft; and between the Gemelli was a Parenchyma of grumous blood, very Bezz folid.

folid, and near the confistence of flesh. Somewhat a like case I was an eye-witness of my self, with the Surgeons of St. Bartholomew's Hospital: the person was old, and of an ill constitution. The Aneurysm had been by his own account twelve years growing, and of late it had increas'd extremely much. It furrounded all the calf, almost up to the knee: and the Pulfation was very strong, not only along the skin, but upon the muscles, in the thickest part of the calf. The Valves of the veins (many of them) were so intirely broken, that there were Varices both above and below the knee, of a prodigious bigness, which nevertheless subsided upon holding up the leg. Upon amputation, notwithstanding the ligatures were strong, and the operation performed with great dispatch, there was discharged from the vessels above a pint of blood: the diameters of the Arteries and Veins were so greatly inlarged. In the Aneurysm, upon dissection, were

were found, besides fluid blood, two or three pounds of Thrombi, which lay like fo many plates upon one another: the whole tract of the crural Artery was greatly dilated, and the several little branches were broken off from the trunk, not above a quarter of an inch from their rise: and from these the blood was thrown into the interstices of the muscles, the Gastrocnemii, neither was there any communication at all from the bottom. The bones were fo carious, that there was a great hole in the Tibia, and four inches at least in the Fibula intirely wanting. This circumstance of the bones being carious, often attends an Aneurysm: Ruisch has two cases, where all the true ribs and the Sternum were almost consum'd, and the little, which remained, was all rotten. And we may eafily conceive, how fuch a Tumour, by a constant pressure, may affect the Periosteum, and cause an obstruction there, and by that means gradually waste the bone

bone itself. We may learn another thing too from this circumstance, that, fince so solid a substance as the bone cannot resist the pressure of an Aneurysm, the arterial coats may be thought more likely to yield to its force, and have their fibres destroy'd by it. Lancist gives us the history of an Aneurism in the ascending trunk of the Aorta, where the patient, who had some time before complain'd of a palpitation, fainting, pain, straitness and beating in the Thorax, died fuddenly. The upper-part of the Sternum was press'd a little outward on one fide. Upon dissection, in the whole curvature of the Aorta was found a substance, like lard, inclosed in a Cystis: there was a hole into the very Pericardium, in which accordingly were found two pounds of blood. He is of opinion, that all Aneurysms come from a dilatation of the Artery, and so very probably at first most of them do: yet in the present instance, he speaks of the fibres being being corroded, and from thence accounts for the dilorication, as he calls it, of them, in which the true nature of an Aneurysm (he says) consists; that is, in English I think, in an unripping or tearing of the arterial coats. A case exactly like this we find, in Laurentius, of Guicciardin, where not only the Cava and its Valves were all burst, but the orifice of the Aorta enlarged to the bigness of one's arm. So it was in a like case related by Parey; where the inner-coat of the Artery, tho' offified, yet at the same time was burft. Certain it is, the Aorta, before its bending, is easier dilated, upon the account of the relistance the blood meets with from the curvature there; and for this reason, Aneurysms oftenest happen in this part of the Artery: and one may easily conceive, that if they can consist in dilatation only, it can no where else so likely take place, as here.

Mr. Littre in the French Memoirs gives a long, and particular detail of two Aneurysms in this place: where the Artery was thrust out so, as to form a fack, which reach'd up into the Thorax and neck, and in one case, even along the neck to the lower-jaw. In both these cases, at first the persons complain'd of a beating, which exactly answer'd that of the Arteries, and of an uneasy strugling in the Thorax, attended at length with a great oppression, a difficulty of breathing, and an universal languor, fometime before any thing was perceived outwardly above the Clavicles: afterwards other symptoms appear'd, much like what I have observed my self in a parallel case, such as pain, not only in the cheft, but in the shoulders, the arms, and the head; in the last, often a pulsation likewise; very little sleep, and that often interrupted; an inability often to lie down in bed, and always a greater ease in a leaning posture forwards: the breathing dioic

thing sometimes so disturbed, as to give apprehensions of a sudden suffocation. In the first of these instances, some part of the ribs, the Sternum and the Clavicles were found carious. A Quack, by suppurating medicines, had made some part of it burst, upon which followed a gangrene, and, in three days, death. Each of these Aneurysms, he says, was only a dilatation of the Artery: but I must confels, tho' his description be very minute and exact, I have still some scruples upon me, and am not perfectly satisfied, that in this case there was a mere dilatation alone of the arterial coats. For belides that he lays himself, there was not only a firm adhesion every where of this aneury smal Pouch to the ribs, the Sternum, the Clavicles, and the Muscles, but a corrosion of its membranes in all those places, where it adher'd: these membranes, which he attributes to his pouch, might be portions of the Mediastinum and the Pleura, or expansions of those

those belonging to the muscles. But yet further, it may not be abfurd, if, in anfwer to this, we should affirm, that humours extravalated may form a particular membrane to themselves, which is no part of the vessels, from whence those humours are discharged. What we obferve every day of a Hernia Carnofa, and Wens consisting of a vast number of Cyflys's, each of which has its particular membrane, and is filled often with a different fort of substance, may give so much countenance to this opinion, that we may at least think it worth considering, before we determin any thing in this point. The account Ruisch gives of an Aneurysin in the Thorax, which filled the whole cavity of it, without any outward swelling, seems to answer this idea: for it consisted, he says, of innumerable thick coats, which lay like so many plates one over another, between which was inclos'd a great deal of coagulated blood. Thus the blood lay like leaves one upon

another, so as to form a sort of Polypus, in the case recited by Mr. Littre d. This is certain, that we may find examples of this kind in Severinus, Marchetti, and others. Our countryman Wiseman tells us, that he always found both coats of the Artery open. In short, as matter of fact is the best argument, I can't but observe, that among all the accounts Anatomists give us of the dissection of an Aneury fm, there is scarce an instance upon record, of a large one at least, where there was not a rupture in the Artery, according to the Doctrine of Paulus, What has been faid will, I believe, be fufficient to shew, how ill-founded is that division, which some Moderns * have made of Aneurysms, into true and spurious; whereas the whole difference lies only in the form of the Tumour. And if you consider what they have advanc'd upon this head, you will find

* Croissant Garengoet.

d Memoires de l'Academie 1712.

that, as this distinction is generally wrong in Theory, it signifies still less in point of Practice.

WE fee how conversant Paulus was in the most difficult operations of Surgery; and as he seems to understand the nature of the cases he treats of, so we shall find him no less well acquainted with the best manner of curing them. I must observe further, that there are some operations he gives an account of, which are neither describ'd, nor recommended by any author now extant before him: one of which is Bronchotomy, or opening the wind-pipe in a violent Quinfy. manner of this process he takes from Antyllus, which, because it is new and exact, give me leave to transcribe here. " Our best Surgeons have described this operation: Antyllus particularly thus. " We think this practice useless, and not to be attempted, where all the Arteries " (I suppose he means the branches of the " Aspera Arteria) and the lungs are affect-" ed; but when the inflammation lies " chiefly about the throat, the chin, and " the tonfils, which cover the top of the " Wind-pipe, and the artery is unaffect-" ed, this experiment is very rational, to " prevent the danger of suffocation. "When we proceed to perform it, we " must cut thorough some part of the " Wind-pipe, below the Larynx, about " the third or fourth ring: for to cut " quite thorough wou'd be dangerous. " This place is the most commodious, " because it is not cover'd with any flesh, " and because it has no vessels near it. " Therefore bending the head of the pa-" tient backward, so that the Wind-pipe " may come more forward to the view, we make a transverse section between " two of the rings: so that in this case " not the cartilage, but the membrane, " which encloses and unites the carti-" lages together, is divided. If the " ope" operator be a little fearful, he may first " divide the skin, extended by a hook: " then proceeding to the pipe, and se-" parating the vessels, if any are in the "Way, he must make the incision. Thus far Antyllus. Paulus adds, "That " he (Antyllus) thought upon this way " of cutting, by observing (when it was " I suppose cut by chance) that the air " rush'd thorough it with great violence, " and that the voice was interrupted. "When the danger of suffocation is " over, the lips of the Wounds must be " united by future, (i. e.) by fowing the " skin, and not the cartilage; then pro-" per vulnerary medicines to be appli-" ed. If these do not agglutinate, an " incarnant must be used. The same " method must be pursued with those, " who cut their throat, with a delign of " murdering themselves." The operation we see is very clearly described, and fome observations extremely proper are

made upon it. C. Aurelianus f ridicules this operation as fabulous, and as never practiced by any of the ancients, and fays, 'tis only a rash invention of Asclepiades. Aretaus mentions it too, but thinks it not warranted by experience s;

" That the Wound would endanger an

" inflammation, cough, and strangling.

" And if the danger of being choak'd

" could be avoided by this method, yet

" the parts would not heal, as being car-

"tilaginous." But Paulus, I think, anfwers these objections; and it is certain, that some of the moderns have attempted this practice with success, however in general it is still reckoned a dangerous undertaking.

Purman tells us he perform'd this operation in one b who had a violent inflammation and swelling in his throat, so that he was in danger of being choaked. The

Acut. 3, 4. g Acut. 1, 7.

h Chirurg. Curiof. lib. 1, 16.

patient who had lost his speech and understanding, quickly after recovered both. And a Surgeon of great experience and integrity has inform'd me, that he has tried the experiment himself: he did it without any previous apparatus, and without so much as dividing the skin; only cut between two of the rings with an incision-knife, and then introduced a small Spathula, after which he made use of a hollow tent; and the patient, who was then judg'd to be in the utmost extremity, soon recover'd and liv'd many years after.

Albucasis, an Arabian Surgeon of good experience, as you will see hereaster, transcribes the manner of this operation from Paulus, without mentioning him: and thinks it may be done without any hazard, tho' he had never seen it performed. What mov'd him the more to be of this opinion, was the case of a Woman, who had cut her throat, who made a noise and groan'd as if in the

agony of death: he found the air came out at the Wound, and that she had not cut the Jugular veins: so he quickly cured her, and no disorder remained besides a hoarseness. Gulielmus de Saliceto, no contemptible author for his time, confirms the practice by his own experience, and relates four cases much of the same nature with this. There is a like remarkable instance too in the Philosophical Transactions.

ANOTHER operation, never described before, is taking off the breasts in men, when they grow, as they sometimes do, to any immoderate bigness. In this case a good deal of fat, he says, grows underneath, and resembles a Woman's breast; and therefore ought to be removed by the hand of a Surgeon. The process runs thus. "A lunar Section must be made in the lower part of the breast; and after the sat is taken

i 6, 46.

" out, the skin is to be fow'd together. " If it is very prominent and hangs over " as in Women, there must be two lu-" nar fections made, meeting one an-" other at their extremities; and when " the fat and skin are remov'd, the "Wound is to be fow'd up. And if any " thing be left behind, the operation is " to be repeated a third time." Fabricius ab Acquapendente k calls this method cruel and barbarous, and exceeding all admiration: and he would fain find out fome use in these excrescencies; which, as he says, are only observ'd in those, who have no hair upon their breasts: and therefore perhaps more necessary to cherish and warm the heart. I will not difpute but the operation may be very fevere; however it seems to be the only remedy in such a case, if it is to be cur'd at all. And one may I believe venture to say, that his gentle Way of treating

² Operat. Chirurg. p. 1, 50.

it with a Lixivial expression of Lime, will have little or no effect towards removing the excrescency.

I FLATTER my felf you won't think me impertinent for taking up so much of your time, in observing some particularries out of these old Authors, which our physical Memorialists take no manner of notice of: an argument, that they either did not read their Writings at all, or that they read them in fo careless a manner, as to make no use of them. And as to the subject I have been just now speaking of, the Surgery of Paulus, it has been the foundation of the treatifes in that faculty from his own time, down to this day: nay too many have only just transcribed him, and some only transform'd him into another dress. I thall only add this remark, that Fabricius ab Acquapendente, an old experienc'd and celebrated Surgeon, and who has described the process of manual operations the best of any modern, lays down every

every where the doctrine of Celsus, and Paulus for his text: and his inferences, and observations consist chiefly in explaining these two Writers. And yet there are many, who are so prejudiced as to think, that there is nothing, but what is common, or scarce worth taking notice of in Paulus; and that Celfus himself never practiced any operation in Surgery. Salmafius indeed gives the latter the severe epithet of Avialeo Novilos, a man ignorant of medicine: but I hope we may have the liberty to diffent from this great critick in a point of Physick. As to Paulus, I imagine I have faid enough of him to give him his true character. Celfus surely, if he had been no practitioner, would never have used this expression in relating the manner, in which Heraclides chose to treat an Αγκυλοβλέφαρον, 'Ego sic restitutum esse neminem memini: besides several other pas-

42. Thook Physick in,

fages to the same purpole. Wou'd he write so at Rome, where it must be notorious, whether he really practiced or no? or can it be conceived any man could write fo exactly upon a subject, and especially so nice and difficult a one as that of Surgery, even tho' we suppos'd he was a translator only, without ever being vers'd in the practice of it? but vers'd he must be, in some measure; else he must have itolen every word he wrote from some other author. The very reading the fingle chapter concerning a fracture of the skull may eafily convince us, that he made those nice remarks of a Contra-fiffure from his own experience. And tho' some dispute whether there can be a Contra-fissure, I see no reason to think it an improbable thing, if the futures are very close or obliterated, as frequently is the case, especially in old persons. The objection that he wrote well upon other subjects, as Rhetorick, &c. and took Physick in, only only as a part of a greater Work, is a very strange one: as if it were not more probable, that a Physician should write well of rhetorick, or any other art, than that a mere rhetorician should be able to write with judgment and propriety of Physick.

I MIGHT easily shew more at large to what a height the Art of Surgery was advanced in these early times, as it stands in the Works of these and the other ancient Writers: but I shall choose to close this head in the Words of one, who was much a better judge of this argument, and who by his great learning and experience " was an honour both to his faculty, and his country. " If we ensure shall be forments which have been made by the moderns in Surgery, we shall be forced to confess, that we have so little reason to value our selves beyond the

m Mr. C. Bernard.

ancients, or to be tempted to contemn " them, as the fashion is among those who know little, and have read no-" thing, that we cannot give stronger or " more convincing proofs of our own " ignorance, as well as our pride. I do " not pretend that the moderns have not " at all contributed towards the im-" provement of Surgery; that were both " abfurd and injurious, and would ar-" gue as much folly as that which I am " reproaching: but that which I am con-" testing for, is, that it consists rather " in refining and dreffing up the in-" ventions of the ancients, and fetting "them in a better light, than in ad-" ding many important one's of our " own. Whether it be, that the art " of healing external hurts, being prin-" cipally the subject of our senses, was " earlier studied, and therefore capable of being sooner brought to a greater " degree of perfection, than the other " branch of Medicine; or, that the mas

" majority of the meer professors ha-" ving been, for some ages, illiterate " and empirical, it hath not been ad-" vanced and cultivated so as it might " have been, had they been better qua-" lified than they generally were, and " do yet, for the greatest part continue " to be: for a testimony of which, " that exceeding paucity of good Wri-" ters, which occur in Surgery, when " compar'd with those in most of the " other learned Arts and Sciences, is, in my opinion, sufficient; and yet, " were they fewer, 'twould, in the judgement of these Scioli, be no great de-" triment to the Art. For the folly of " which affertion, the best excuse that " can be made, seems to be, that be-" cause some methods of proceeding " both in Phylick and Surgery, which " are incommunicable, and to which " every man must be directed by his " own judgement, and natural fagacity, not being to be found in these authors, " whom " whom these opinionated practitioners

" have had the luck to confult, they are

" led immediately to despise all reading,

" as useless and uninstructive; especial-

" ly that of the ancients, who do not

" generally, I confess, write to novi-

" tiates and fools, or to those who will

" be always such.

"But whoever hath been conversant

" in their Writings, and hath the op-

" portunity and capacity of comparing

" and judging from his own experience,

" will readily confess, that one thing,

which does not a little recommend

"the reading of them beyond most of

the moderns, is, that they are more

accurate in describing the Pathogno-

monics, and more just and nice in

distinguishing the species of Tumors

and Ulcers, than our more refined

moderns are.

rude and superfluous methods of praetice, as it must be confest d they have,

95 it

" it cannot be demonstrated that they

" were all derived from the ancients,

" but were in a great measure introdu-

" ced by ignorant and barbarous pro-

" fessors of a much later date.

"There is no question, but that the principal improvements, which have

" these latter ages been made in Surge-

" ry, are owing chiefly to the discove-

" ries, which have been made in Ana-

" tomy, by which we are better enabled

" to solve many of those Phænomena

" which were before inexplicable, or

" explain'd amis: the most important

" part, in the mean while (I mean the

" Art of Healing, to which all the others

" ought to be subservient) remaining

" very little better than the ancients left

"nit. rebuy bas garanal be

" As an uncontestable proof of what

" I fay, I appeal to all those bodies of

"Surgery, which have been hitherto

" published, by the most learned and

g celebrated of the moderns, being all

ff mani-

manifeltly transcripts from one another, and the best of them from the ancients. But this may indeed be faid in defence of the moderns in this par-" ticular, that even transcribing is not their invention, though it be their or practice; for Ætius and Ægineta have " borrowed not a little of what they " have, from Galen; and Marcellus Em-" piricus more grossly from Scribonius Largus, without so much as remem-" bring his name among the rest of those authors, to whom he was less beexplain'd amile : the most inabled and AMONG all the fystematical Wri-" ters, I think there are very few, who refuse the preference to Hieron. Fabricius ab Acquapendente, as a person of " unquestioned learning and judgment; " and yet is not he asham'd to let his readers know, that Celfus among the "Latins (who, he tells us, is Mirabilis

in omnibus, and advises, in Horace's

mani-

Words, Nocturna versare manu, vercc fare " (are diurna) Paulus Ægineta among the

" Greeks, and Albucasis among the Ara-

" bians (whom I am unwilling to place

" among the moderns, being in the num-

" ber of those whom our modern judges

" reject, either because they never read

" him, or because he had the misfortune

" to live fix hundred years since) are the

" triumvirate to whom he principally

" stands indebted, for the assistance he

" receiv'd from them, in composing his

" excellent book.

"But how many operations are there

" now in use, which were unknown to

" the ancients? I fear, that upon a due

" enquiry, there would be more useful

" one's found to be omitted or discon-

" tinued, than to have been invented

"by us." worten above "su yd " THUS I have given you some little detail (for much more might be faid) of these four Greek Writers: by which short sketch you will observe, that Mr. le Clerc might have found some materials in them

them as important, and as much untouch'd by others, as several, which he has largely commented upon, and which he met with chiefly in those, who wrote in the interval between *Hippocrates* and *Galen*.

AND here indeed closes the period of the Greek Classical Physicians: so I must call them. For if we compare any of the Greek Writers in our faculty, from the very first of them, Hippocrates, to the time we are now speaking of, with the very best of their contemporaries of any Art or Profession whatever, they will be found not at all inferior to them either in the disposition of their matter, the clearness of their reasoning, or the propriety of their language. Some of them have even written above the standard of the age they liv'd in; an inconrestable instance of which is Areteus. Nay the very Sophists, who before, and after Adrian's reign, swarm'd not only at Rome, but along the Afiatick coast, and ema

employ'd their whole study in imitating the elegance, at least the diction of the old Greek Writers, have not out-done Galen, and some of his successors, if we consider them in regard to their style only. Galen himself was not only the best Physician, but the best Scholar and Critick of his time. So great an Honour have these authors done to their profesfion, by being versed in other Arts and Sciences, as well as their own. And I may venture to fay, that the great St. Bafil, whom his own continual illness made a Physician, and who has a great many allusions and similes taken from that Art, was (to use the Words of Photius) for the neatness, the propriety, the perspicuity, and fluency of his style, one of the best Writers among the Fathers; as St. Luke's Greek comes nearer to the ancient standard, than that of the other Evangelists. For tho' St. Luke has some mixture of Hellenisms and the Syriack phrase, which may be easily allowed in one that

of ton

was born a Syrian, and was probably converted by the Hellenists"; yet the reading the Greek authors, while he studied Physick, made his language without difpute more exact. His style fometimes is very flowing and florid, as when he describes the voyage of St. Paul. St. Luke indeed in his profession as a Physician, and no doubt merely because he was one, when there is occasion to speak of distempers or the cure of them, makes use of Words more proper for the subject than the others do. Many instances of this might be given; I shall content my felf with one or two. The person seiz'd with a Palfy is here with great propriety called raganenuaire, but by St. Matthew? and St. Mark 9 magazulixos, a word never used by the ancient Greek Writers. The Woman, who had the Iffue of Blood is described by St. Mark, as madioa was πολών τα Γρών ο δωπανήσασα ποι πάρ' saulis, ο

n Vid. Grotium in Titul. 0 5, 18. p. 9, 2.

μποθέν ώφεληθείσα, αλλά μάλλον είς το χείου induen. St. Matthew omits all these particulars; but St. Luke, tho' he does mention them, gives them quite another turn, and fostens the passage very much in regard to his faculty, and instead of relating how much the suffered by the feveral Physicians, or how she grew worse upon her remedies, he says only that her distemper was above the reach of any of them to remove it; in iquaer an useros Decamenting ! And you may observe, that when he comes to speak of the charges the Woman had been at, he uses a very proper expression περσαναλώσασα, whereas the Word Sumarionou us'd by St. Mark, properly fignifies spending only in a riotous and luxurious manner; and so St. Luke applies it" in the case of the prodigal son. Thus in setting down the cure of the same Woman, St. Matthew says only

f 9, 20, 18, 43. # 15, 14.

couldn; St. Mark, imitating the Hebrew phrase, expresses it by stregion i myi to बंभूड़ी छ : the language of St. Luke is more simple and more correct, as well as more Physical, isn & pions. When our Saviour heal'd those, that were brought to him, of their diseases, the expression in St. Matthew is Sieowilnour +, and in St. Mark ionigorlo"; but St. Luke uses the Word that is peculiarly proper for healingz, iam navlas. So when St. Matthew fays the Centurion's Servant was cur'd a, St. Luke tells us, that they found him not only recover'd, but inairolab, in perfelt health, which shews the cure still more effectual. In like manner in describing the young maiden that was raifed from the dead, upon our Saviour's speaking the word, he fays fine pete no Treupe, which he puts in, no doubt, as being the first sign of coming to life. The same accuracy of expression he observes

x 14, 36. y 6, 56. z 6, 19. A 8, 43. 1 b 7, 10. 6 8, 55.

we may see in regard to the lame d. It is remarkable, that St. Luke is more particular in reciting all the miracles of our Saviour, in relation to bealing, than the other Evangelists are; and that he gives us one history, which is omitted by the rest, that of raising the Widow's son at Nam.

than is due to the Greek Physicians: the LatinWriters have ill copied this example; if we except Celsus, and Pliny, the last of which has touch'd upon some parts of physical knowledge, who is there else, whom one can read with any patience? Scribonius Largus, who cannot well be even reckon'd any more than a mere Empirick, tho' he wrote in the time of the sirst Claudius, when the Roman language was in some tolerable degree of purity, ought, as I may say, to be translated into Latin, in order to be understood

d Acts 3, 7

by those, who are conversant only with the Classicks of that age.

Lionardo di Capoa, in the fantastical discourses which he calls Reasonings, hints more than once, that the Greeks made but a small progress in Physick, and added very little to it, besides dressing it in good language. But furely nothing can be more clearly prov'd from all history, than that they were the first, who reduced Physick into any Art or Science: and that ever fince their time to this very day, in all parts of the World, where the Gracian Phylick is unknown, there is nothing to be met with but the Empirical way of curing. He might with as much reason have denied them the merit of bringing Poetry, Oratory, Sculpture, or Painting to perfection. This treatise I think is one of the most unaccountable I ever read: the author has shewn us, that he had a good deal of scatter'd learning, and that at the same time he did not want talents to abuse it, by giving an ill turn to every thing he read.

read. How much the art of Physick was improved, polished and perfected by the Greeks, has been accurately explained by Mr. le Clerc; and I sha'net here mispend my time or yours, in arguing with a Writer, who seems to know so little of the solid part of this Profession, that he will scarce allow it to be any Art at all. Nay, he is so ridiculous, as to quote Sextus Empiricus, the famous Sceptick, for one of the authors, who was apprised of the Uncertainty of Physick: whose very principle it was, to allow no manner of Certainty in any thing, not even in a Mathematical Demonstration.

I cannot omit saying something of one Author more, whom we may reckon one of the ancients, tho not properly a Writer in Physick, Nemesius, Bishop of Emissa, who wrote a treatise concerning the Nature of Man, near the end of the fourth Century: because the Oxford edi-

tor ascribes two discoveries to him, one of which was the most considerable, that ever was made in Physick. The first is concerning the Biles, "which is consti-" tuted, as Nemefius says, not only for it " felf, but for other purposes; for it " helps digestion, and contributes to the " the expulsion of the excrements; and " therefore it is in a manner one of the " nourishing powers: besides, as a vital " faculty, it imparts a fort of heat to the " body. And for these reasons it seems to " be made for it self: but because it pur-" ges the blood, it feems to be form'd for " the sake of the blood." Here, says the Editor, the system of the Bile is plainly and accurately deliver'd; that very fystem, which Sylvius de le Boe with so much vanity boafted he had invented himself. And indeed so far is true, that here is the intire foundation of Sylvius's reasoning: and if this Theory

be of any use in Physick, Nemesius has, I think, a very good title to the discovery. But there follows a much more material point; and the Editor contends, that the circulation of the blood, an invention which the last century so much bragg'd of, was known to Nemefius, and described in very plain and significant terms, which are these. "The mo-" tion of the pulse b takes its rise from " the Heart, and chiefly from the left " ventricle of it: the artery is with " great vehemence dilated and contract-" ed, by a fort of constant harmony and " order. While it is dilated, it draws " the thinner part of the blood from the " next veins, the exhalation or vapour " of which blood is made the aliment " for the vital spirit. But while it is " contracted, it exhales whatever fumes " it has thorough the whole body, and " by fecret passages. So that the Heart "throws out whatever is fuliginous

" thorough the mouth and the nose

" by expiration."

UPON this single slender proof does he attribute this great discovery of the circulation to Nemesius; and those who have infifted, that it was known both to Hippocrates and Galen, have full as good arguments on their fide. I will only say this, that from this very description, and from what the same author fays of the Liver in the same chapter, that it ministers nourishment to the body by the veins, one may demonstrably infer, that Nemefius had no Idea of the manner, in which the circulation of the blood is performed.

I WILL not enter into a dispute upon this Head; but shall only content my felf with observing, that the true circulation was not at all rightly understood by a much later Writer, and that a very elegant and accurate one, Columbus: who, as he was an excellent Anatomist, rwom.

above

above one hundred and fifty years ago, with the nicest exactness, explain'd not only the structure, but the use too of every part belonging to the Heart, excepting a little mistake about some of the Valves: and did in as clear a manner, as words could express, shew, how by the contraction and dilatation of the Heart and mechanism of its vessels, the blood circulates thorough the lungs from the Cava to the Aorta, (no body, as he fays himself, having either observ'd this, or written any thing of it) and from thence into all the parts of the body. In his language (as to the sense, much indeed the same as we find in Servetus, a contemporary Writer, tho' much more fully explain'd) the lungs are for generating vital-spirits, and this he describes in the following expressions. "The "Wind-pipe diffuses the air into all or parts of the lungs: the lungs mix

i lib. 7.

" this air with the blood, which comes " from the right ventricle of the Heart " by the pulmonary artery. The blood " by this continual motion of the " lungs is agitated, attenuated, and " mingled with the air, which air it " felf by this collision and rarefaction is so prepar'd, that both the blood " and air mix'd together, are taken in " by the branches of the pulmonary " vein, and thorough its trunk convey'd " to the left ventricle of the Heart; and " they are convey'd hither so well mix-" ed and attenuated, that there's little " more left to do for the Heart: therefore after a little further elaboration here, which gives as it were the last " hand to the vital-spirits, there remains nothing else than that the Heart, by the help of the Aorta, should throw and distribute the blood into all the parts of the body." This is literally the fense of this inquisitive Anatomist, and we see how exactly consonant to truth

truth his doctrine is: only he stops short here, and does not at all explain, how the blood flows from the arteries to the veins. Nay, it is evident from what he fays in feveral places of those vessels, that he did not in the least comprehend any communication between them. For besides that he assigns the carrying of vital spirits only to the atteries, in another discourse he tells us, that the veins convey the blood from the liver, to all the parts of the body. And in this point chiefly, that is the intercourse between the arteries and the veins, is his doctrine of the circulation deficient: however little it has been understood by those who have writ for, or against Harvey. Cafalpinus indeed drops the word Anastomosis k (copying perhaps from Servetus, whose 'word it is) by which he supposes the native heat may pass from the arteries to the veins; but this in

k Quæft. Perip.

the time of fleep only: and from the fentence immediately following 'tis plain, that he had no notion of the circular progress of the blood; for he makes it only move like an Euripus, the very word he uses, in a fort of undulating motion from one extremity of the veffel to the other, which is indeed the very idea Hippocrates himself had of the motion of the blood: and Acquapendente in direct terms describes the blood as circulating by way of flux and reflux in the arteries. Were we indeed to reason from what these Writers say, concerning the circulation of the blood, both thorough the Heart and thorough the Lungs into the Aorta, the conclusion must demonstrably be, that the blood which goes into the Aorta must return back into the Cava: else how could the constant current, which by their own account runs thorough the Heart and Lungs, be maintained? but 'tis as demonstrable, that they did not perceive this consequence, which

which naturally and necessarily follows from their own principles. Neither is this so much to be wondered at: for Columbus and Casalpinus might as well go so far, and no farther, as that Acquapendente could discover and describe the Valves of the veins, and yet be at the same time ignorant of the true use of them ": as it is very plain he was, from his own description of them.

As this great discovery was entirely owing to our countryman, so he has explain'd it with all the clearness imaginable: and tho' much has been since written upon that subject, I may venture to say his own book is the shortest, the plainest, and the most convincing of any: as we may be satisfied if we look into the many apologies written in defence of the circulation, or have the patience to read the tedious un-

m De Venarum Oftiolis.

instructive Treatise of Raymond Vieus-

THIS new doctrine of the Circulation, however proved beyond all doubt in a demonstrative way, met with great opposition: and the inventor of it was obliged to bear the attack of numberless adversaries; who generally in their answers shew'd more a spirit of contradiction, than any force of reasoning. The learned Gassendus indeed acted very differently, and behaved with that ingenuity, which became a Scholar; and tho' he had formerly very strenuoufly denied the Circulation and the communication of the chyle with the blood, yet at last was convinced of his error by Pecquet, the discoverer of the receptacle of the Chyle, and the tracer out of the Thoracick duet in a human body: and as foon as he was convinc'd, he expressed great joy, that, dying as he

n De Sanguine & corde.

was, he had come to the knowledge of these two important discoveries: adding, that he look'd upon these two truths, which prove one another, as the two Poles, upon which all Physick for the future ought to turn.

FROM this discovery of our great Countryman many improvements, even in the cure of distempers, might be made: he had thoughts of composing such a Work himself, to shew the advantages of this doctrine, in relation to practice, but was prevented by sickness and death: the design of the Architect was very noble, and I wish some of his successors might finish it. At present I shall hint only at two or three particulars, which will convince us, of what use a perfect knowledge of the circulation may be to us, if rightly applied, in the practical part of our profession.

FOR instance, this doctrine will let us see the reasonableness of tying up the arteties in Amputations, as it is

practiced now by our Surgeons, and how much preferable this method is to that old painful and cruel one of stopping the blood by Cauteries, Cauflicks, or Escharotics alone. Besides avoiding an extreme torment in this case, we know that the blood, by the laws of its motion, must continually bound against the Eschar of the divided vessel with such a force, as nothing besides a ligature can well resist. The invention of this method was owing to Parey', who, as he says himself, had never either feen or heard of its being practiced before, but had taken the hint of it from a passage in Galen concerning Wounds, and made the experiment of it with fuch fuccess, that he thinks it came into his head by Inspiration. And no doubt, without inspiration, if we would revolve often in our thoughts what the ancient Physicians have written upon any particular subject, new hints would occur to us not only in relation to that very case, but what may be applied, as in this instance from Parey, to some other. This practice of Parey was indeed before the discovery of the circulation; but yet I question whether or no it would have been so much in vogue, did not this doctrine evidently convince men of the usefulness of it: as we may have leave to infer from observing, that 'twas a practice but slowly received in several countries, nay even in France it felf, if we may judge by Vigierius's p account of it; and but of late years revived, or rather introduced among our selves. However the Germans are but little acquainted with it; Hildanus 9 himfelf speaks but flightly of it; and the Dutch, as Nuck' informs us, intirely reject it.

p Chirurg. p. 39. q De Gangræn. 8. 4. r Experim. Chirurg. 49.

THIS doctrine likewise explains to us, how upon amputation, when the trunk of the artery is cut off, the course of the blood is nevertheless preserved: the lesser arterial branches in this case supply the defect, and by distending themselves gradually to a greater dimenfion, are able to furnish those parts with what is necessary for motion and nourishment. A Problem, which can never be folv'd by any other principles than those of the circulation; and is so far from being an objection, as some ignorant Writers make it, against this do-Arine, that it is one, and not the least, demonstrative proof of it.

ONCE more, this doctrine at first sight shews us the true method, (as 'tis now practiced among our own Surgeons, who yield to none either in their skill of Anatomy, or the ancient Surgery,) of treating Aneurysms, which arise upon a puncture: how instead of using compression, which seldom stops the current

rent in the artery, we ought, after having made proper ligatures, to divide the vessel: and that we ought not only to tie the artery above the puncture, but below it too, as in the case of a Varix; in order to hinder any supply of blood from other branches, which every where almost in the body communicate with one another. It has been observed before, that the practice of another nation is very defective in this point.

Galen, and all who follow him, order that revulsion should be always made
on the same side, because it may be greater: and the reason they give for it, if
it be a reason, is because there is a greater
consent of the parts on the right side
with the right veins, and of the left with
the left. Accordingly for many years,
for almost two centuries, 'twas as warm
a controversy as ever was in Physick,
whether in a Pleurisy, a vein should be
opened on the same or on the opposite side.
I mention this chiefly to shew, that they

had no true notion of revulfion, before the circulation was demonstrated, whatever some injudicious zealots for the ancients would pretend; and indeed 'tis impossible to understand any thing of this doctrine without a knowledge of the circulation. This in one moment lets us fee, where the strongest revulsion may be made; and as to the manner of bleeding mention'd in a Pleurify, it shews us, that bleeding on the same side, does indeed somewhat more immediately revell, but that at the same time the difference is so minute, that one wou'd wonder there ever cou'd have been any dispute about it. I may add in regard to bleeding in general, that the Circulation has quite confounded and superseded all those rules, which had been before with so much pains and formality laid down, as to opening, in particular cases, this or that vein: and tho' the ignorant part of the faculty has lost a good pretence of driving on this way a trade in Phylick, and of of making a mystery, where there is none; those surely who understand their profession must acknowledge, that they have this advantage at least from the Circulation, of knowing exactly how indifferent it often is, which vein is made choice of; or, if there be any preference, of judging without any hesitation, which vein to choose.

BUT to resume the thread of my history, I must come now to some other Greek writers in Physick of a lower rank, and a later date: but as the greatest part of these contain little that is new, I shall content my felf with giving a very short account of their works, and only be as particular as I can, in adjusting their several ages; concerning which, I think, all our authors have left us in great confusion. Tho' indeed this is the less to be wondered at, considering that from the time of Agathias, that is from five hundred and fixty to the reign of Isaac Commenus in one thousand and sixty, there is a chasm R 2

chasm of five hundred years in the Gracian history; so that we know very little of all that interval, except what some slender account of the reigns of a few Emperors, chiefly Mauritius and Heraclius, furnishes us with.

Palladius, call'd Sophist or Fatrosophist, was bred, as he himself seems to hint, at Alexandria. I place him first among the more modern Greeks, but cannot agree with a late learned author who computes, that he flourished about the year one hundred and twenty fix *. St. Albinus gheffes better at the age of Palladius, in ranking him after Galen, i. e. after the year two hundred: tho' Albinus is guilty of a great over-fight in this matter, for he fays in his Preface to the Translation, which he has given us of the Commentaries of Palladius upon Hippocrates's book concerning Fractures, that he thinks it is probable this author liv'd after Galen, since Galen does

mile

S al charty * Biblioth. Literar. N. 2.

not mention him: whereas he might have been satisfy'd from his own translation, that it is certain: for there Palladius quotes Galen. Indeed he not only mentions Galen here, but in his other works very often: and it may be prov'd, that he lived not only after Galen, but after Ætius and Alexander too, whose words, as we shall see, he makes use of.

THE commentaries upon Fractures are imperfect: however, what of them remains is enough to let us fee, that we have no great loss by it: the Text being as full and as instructive as the Annotations. Those upon the fixth of the Epidemicks go no farther than the feventh Section; the rest, which included the eighth, being lost. In these he with great perspicuity and exactness, illustrates not only Hippocrates, but several passages of Galen: and observes particularly that the Stone increas'd much in his time, and was less curable; and he imputes this to the luxury of the age, , bions

to much eating, and want of exercises.

The treatise of Feavers is clear and succinct, but taken in a great measure out of Atius: the chapter de Epialatis word for word from that author; and in that concerning a Hellick, the remarkable comparison of pouring water upon Lime, may plainly be traced not only in Galen, but in Atius and Alexander.

The next chapter treats of a Marafmus; and I beg leave by the by to correct
a very great mistake, which Mr. Chartier,
who has given us a very elegant edition
of this piece, has made. Part of the
description of this distemper, is βλίφαες
απλησίως μυσαζούδων, which he translates
palpebrae Sacrificantium similes. Besides
that there is no such word in the Greek
language, as μυσείζω, the sense requires it
should be read νυσαζούδων, dormitantium,
This very circumstance of the eye-lids is
in Galen, and expressed by the very same

^{162,} f cap. 27, # cap. 17.

word, ωξαπλησίως νυςάζησι διακάμενοι. The expression of Ætius is ύπνωτ Τον Τες, and of Alexander εἰς ΰπνον Ελκονία.

There are several Mannscripts of this piece in the library of Vienna, tho' none of them bear the name of Palladius; but are ascribed sometimes to Theophilus, sometimes to Stephen, and sometimes to both. In the title of one, it is said to be taken from the mouth of Theophilus, as Lambecius at large relates *. However, if we would confult Palladius himself, we should be satisfied that he was the true author of this book, for he refers to it in his commentaries upon the Epidemics?. You see here an instance, how little stress is to be laid upon the Titles, as they are often set down in Manuscripts; which frequently carry the name of this or that author, as the wrong judgement, the fancy, or some secret view of the transcriber happen'd to lead him.

x lib. 6. 88.

y Sect. 6. 6.

INDEED there are several tracts under the name of Theophilus, who goes by many and different titles, Jatrosophista, Protospatharius, and Monachus; the two last of which seem very contradictory to one another. Lambecius places this Theophilus in Heraclius's reign: for this reason only, because in one manuscript z the book of Feavers, as we just hinted, is said to be taken from the mouth of Theophilus; and therefore, since the same book is ascribed to Stephen, who wrote in that reign, he thinks it follows that Stephen was one of his auditors. But the authority and the reasoning equally seem ill supported; and I think what has been faid of this very treatise just before, is sufficient to refute such an opinion. I should rather be inclined to believe, from some barbarous words, which he intermixes in his Writings, that he liv'd after that time. He is the first Author now extant, who has treated professedly of Urines: and he has very well explain'd the causes of their colour and consistence; what distempers they respectively indicate, and what prognosticks may be drawn from them. There are here several passages the same, and express'd in the same words, as we may read in a book upon the like subject, falsely ascribed to Galen, as will eafily appear to any one, who compares them. He transcribes often out of Ætius. He has written in much the same manner concerning the Faces. We have also extant two works of this Theophilus, The Structure of the human Body, and Commentaries upon the Aphorisms of Hippocrates: the last are short and plain, and shews him to be no less versed in Aristotle's notions, than well acquainted with the sense of Hippocrates. But in both these works, and especially the first, he takes the greatest part out of Galen; whose books concerning the use of the parts he very often fo religiously copies, that that in the description of the Wind-pipe, he quotes the very same verse out of Homer, which Galen does,

Κλαγγηδονδε πέπονλα επ' ώκεανοιο ροάων.

But where this author varies from Galen or adds to him, will be better explained by an ingenious gentleman, who intends to give us, what is so much wanted, an edition of this and some other Anatomical Pieces of the ancients.

THE Aphorisms I mentioned are printed under the name of Philotheus; and in the Vienna Manuscripts are ascribed to Stephen.

THE treatise concerning the Pulse, which we have translated under the name of Philaretus, is in the Manuscript there said to be written by Theophilus: and perhaps not without reason. For the structure of the human body is done much in the same manner; he says others had written upon this subject either

ther too imperfectly, or too prolixly: by the last expression he seems to mean Galen, of whom indeed he gives us here only an Epitome, drawn out of his books of making a Prognostick from the Pulse.

Stephen the Athenian or Alexandrian, called fometimes the one, and fometimes the other from the place either of his birth or his residence, wrote a commentary upon Galen's first book to Glauco: a book writ with so much perspicuity, that it does not seem to want any comment to make it more intelligible. But there is reason to think, that the chief physical learning of his time, consisted in reading upon Galen: and Abi Osbeia, the Arabian Biographer, tells us of seven Alexandrian Physicians, among which Stephanus is one, who digested the Works of Galen into fixteen books; which again, according to the different matter, they divided into feven Classes: that these were the only books they studied; and that in their turn, they

they made it their whole business to comment upon them and explain them to their auditors. And therefore it is not at all probable, that he lived in the third Century, as Mr. le Clerc, without any authority, supposes: and indeed it is plain from this very comment of Stephen, that he was much more modern; for he himself mentions very ancient expositors of this particular book of Galen. And upon confidering what he fays in Section 1 40, concerning a Quartan, to me he seems to allude to a wrong interpretation, as he represents it, which Alexander b had made of Galen's sense in this place. If this Writer be the same with Stephen the Chymist (as he is call'd) his age is eafily known: for that author dedicates his work de Chrysopæid to Heraclius, and this will make his age confiftent with what has already been obferved. We read of a Stephen too, and

⁴ S. 98

an Alexandrian likewise, in this very Emperor's reign, who was a famous Astrologer, and foretold the great power to which the Saracens should arrive, as they did in some years after. Vanderlinden calls' Stephen the last of the old Greek authors; tho', if this account of his age be true, it will appear that several others wrote in Greek after that time.

OF these Nonus seems to be in order next; who compos'd a fort of a Phylickmanual, in which is contain'd some short account of most distempers and their cure. He inscribes it to Constantin Porphyrogenitus; who according to Lambecius was the seventh Emperor of that name, the son of Leo, and died in nine hundred fifty nine; and who, as he had some tincture of learning himself, was a great Patron of it. But Fer. Martius, who publish'd an edition of this author in Greek and Latin, thinks the Constantin here meant (a Porphyrogenitus as well as the other) was the son of Constantin Ducas, Ducas, who died in 1067; for this reafon, that the father Ducas, tho' unlearned enough himself, was an admirer and encourager of letters, and had this saying often in his mouth, That he had rather be emobled by Learning than by Sowereignty. Accordingly we find the Pselli made some figure in learning about that time.

To which of these Constantins Nonus inscrib'd his Work, is not very material: I shall only take notice, that we may collect from a passage in Anna Commena's History, that in the interval between these two Emperors, learning was extremely declining, if not quite extinct.

THIS epitome is little else than a transcript from Ætius, Alexander, and Paulus. For instance in the chapter concerning a Carus, what he says dof the anterior part of the brain is taken from Alexander and Paulus f. The direction

c lib. 5. d 28. e 1, 4. f 3, 9.

to bleed in a fit of the Stone &, is evidently copied from the latter author b; and from the former is transcribed the obfervation and distinction he makes about bleeding and purging in a Pleurify 1; though Moreau, who quotes the very words from him, takes no notice of it. Many of the medicines he recommends are in so many words describ'd in Ætius, viz. The Collyriums of Erafistratus, and those made of Frankincense, and of the Plant call'd Glaucium", the applications for the face in an Elephantiasis, &c. the antidote of Esdras" and others. Nonus is so modest as to quote no author; which very well became one, who had so little of his own. Nay he is so free with the labours of his Predecessors, that he even assumes their experience to himself: he gives a particular description of Melancholy, and with an air of a great Practitioner, is full of the good effects

g 174. h 3, 45. i 6, 1. 1 129. m 49, 4, 5. n 205, 206. n. 13. 9 33.

he had seen himself from the Armenian Stone, and therefore prefers it to white Hellebore: he talks very sensibly about the bite of a mad Dog^p, and remarks, that when once a Hydrophobia comes on, he never, in all his experience, knew one recover: and yet every word in the first case is transcribed from Alexander ⁹, and in the latter from Paulus ^r. Barchuysen, you may observe, treats him as an original Writer, and employs a whole paragraph to explain his notions as to the causes of distempers, who had no one notion but what he borrowed.

In some of the Manuscripts at Vienna, this piece is divided into chapters, as it is printed; in others into books; but in all of them it goes under the name of Theophanes, without the least mention of Nonus; and in the title is said chiefly to be collected out of Oribasius, tho

p 270.

by the account already given it is very plain, that the collector, whoever he was, was more beholden to other Writers.

Michael Psellus liv'd not long after Nonus, and inscribed the book, which he put together concerning the qualities and virtues of Aliments, to Constantin the Em- . peror. Lambecius sthinks this Constantin is he, who is call'd Monomachus, and who reign'd from 1043 to 1055: but if, according to his account, Pfellus died in 1078, it is at least as probable it might be Constantin Ducas: and what adds to the probability is, that it appears from Zonaras', he was Præceptor to Michael Ducas, that Emperor's fon. The fame Zonaras gives this Writer the character of a Person wholly unfit to have the tuition of a Prince, as being not at all qualified in any fort of letters: but Anna Commena", who lived a few years after him, on the contrary, extols him

f Biblioth. Cæfar. 6, 208. 1 lib. 18. # lib. 5.

as one who was a perfect master of Philosophy, one of great natural Parts, and of profound learning both Greek and Chaldaick. The same encomiums are bestowed upon him by Leo Allatius, who (by his Dissertation de Pfellis) seems to be fond of this very name, and describes him not only as moduyeapointal @, but as one in the first rank of Writers. However there is nothing to be found in this Treatise, which can do any Author much credit: for it is only a collection from the elder Greek Phylicians, who themselves collected this part of knowledge chiefly from Galen, as he had done before from Dioscorides. He was perfecuted and strip'd of every thing by Nicephorus Botoniates, turn'd Monk, and foon after died, very old. There are many other tracts writ by this Author; an account of which we may read at large in Leo Allatius.

AND yet, tho' Pfellus was such a compiler as has been mention'd, Simeon

of Antioch, writing upon the same subject, but, indeed, in a very impure style, copy'd mostly from him: which is the more extraordinary, since the book he transcribed from, was then fresh in every one's memory: for Simeon must have been his contemporary, tho' no doubt younger, because he dedicated this treatise to Michael Ducas call'd Parapinaceus, who relign'd the Empire in 1078, the very year in which Pfellus, as we are informed, died. There are many other works of this Simeon: particularly we owe to him the translation (out of Arabick into Greek) of a very fantastical book, concerning the wisdom of the Indians, which Perzoes, a Physician, collected at the desire of Chosroes King of Persia.

WE have extant likewise a little Treatise upon the Gout, written by Demetrius Pepagomenus, and dedicated to Michael Palæologus: about the year 1260, if the

x Bibl. Gr. Vol. 3, 17.

first Emperor of that name be understood; and if the second, about 1310. This difcourse, though containing little extraordinary, and being collected out of other Writers, chiefly Alexander, yet is far from deferving the character, which M. Musurus, his translator, bestows upon the Author, (by name unknown to him) of infans & elinguis, &c. as if he could not express what he meant. Fabricius seems to imagine, that the treatife falfely ascribed to Galen concerning the cure of the Stone, might be writ by this Author, Demetrius: but how he comes to imagine so, I cannot divine; unless the affinity of these two distempers might have given him some ground to suspect, that they were both treated of by the same Author

Actuarius, the son of Zachary, so called without doubt from the employment he held as chief Physician, to the Em-

y Codin. lib. 2.

peror, is an Author of a better character than any of the rest I have mentioned. He wrote several treatises, in which occur many things worth our reading. He practiced at Constantinople, and, as it appears, with some degree of credit: his fix books concerning the method of cure being compiled for the use of one of the chief Officers at Court, the Lord Chamberlain, who was fent upon an embassy into the North. Fabricius, by mistake, makes Actuarius himfelf the Embassador. In these books, tho' he chiefly follows Galen, and very often Ætius and Paulus without naming them, yet he makes use of whatever he finds to his purpose, both in the old and modern Writers, as well Barbarians as Greeks: and to do him justice, we may find several things in him not to be met with any where else.

THIS Piece he calls a little Book or Compendium, writ extempore; and, as he says in several places, it was designed

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only for the private use of this Embassador, who being somewhat versed in the knowledge of Physick himself, might eafily have recourse to it upon any occafion: and therefore you may observe there is nothing faid in it relating to Surgery, or the distempers of Women. Tho' the Author, I confess, sometimes forgets himself, and does not always keep up to his defign; else we should have found no mention of diseases, particularly the Aphtha, in children. In the first two books he treats of the causes and signs of distempers; in the two next, of the cure of them in general and in particular; and in the two last he describes all the inward and outward remedies; some of which he says he takes from the Greeks, some are his own, and some are such as he had heard of; but rarely adds the name of the author, least that might raise too high an opinion of the medicine.

he fays in feveral places, it was deligned

In the third and fourth book, as well as in other places, he talks much of his own experience: in speaking of the bite of a mad Dog, he says he has known a Hydrophobia succeed after a twelve-months distance: some tell us, he says that it will appear after feven years; and here he plainly means Paulus, whose words they are, tho' he does not name him. He has some new and proper remarks, where he treats of the Colick and inflammations of the Liver 4: the distinction he makes in the causes of Palpitation seems to be his own, and is not taken notice of, as I can find, any where; Oribafius, Ætius, and Paulus only transcribe what they say, which indeed is very little upon this head, from Galen. He tells us, that this disorder generally arises from too great a heat or plenitude of blood; but not always; for sometimes vapours, which fume upwards, may produce it. And the difference may

z 4, 6,

a 4, 7.

6 4, 3.

be found out, particularly thus: if it proceeds from the first, the Pulse will be unequal: but there is no necessity, that it should be so in the latter. And surely he gives as rational an account of the causes, which occasion this violent motion of the heart, as any who have writ fince his time. If we look into the Arabian Authors, who wrote before or in his age, we shall find they generally attribute this distemper to a cold cause; Paracelfus ascribes it to a dissolution of his Tartar; Helmont to an acidity of the native Gas; Sylvius de le Boe chiefly to the corrofive vapours from the Pancreas. It will be too long to repeat all the Hypotheses of fanciful Writers, which relate to the origin of this disorder: for a tast of the rest, I thall only give you one from a German Author, Dolaus, who has written, as he Styles it, an Encyclopædia of all Physick, in order to instruct us in the right notion of each distemper. " Palpitation " says he, is a disorder, wherein Car-" dimeleck,

" dimeleck, the King it seems who keeps " his residence in the ferment of the " heart, finding himself attack'd and " oppress'd by a civil War, rais'd by a " disaffected Party among his subjects, " exerts himself all he can to drive out " the enemy, and calling in to his aid " his ancient good ally, Microcosme-" tor, Governor of the Animal Spirits, " he gives battle to the disturbers of his " rest." But to pass by this idle jargon, and to enter into a more rational Pathology of Palpitation; what Actuarius says of the unequal Pulse in the case of plenitude, we find often by experience is very true. And this inequality of the Pulse is often a fore-runner of not only a Palpitation, but of a Syncope and sudden death, and indicates some obstruction about the Heart; as Galen prognosticated in the case of Antipater the Physician, who died soon after in this

c Loc. affect, 4, 11.

manner. The Pulse indeed in these violent commotions, is not only unequal, as to time or strength, but frequently intermitting. For the heart meeting with a relistance from the blood, either in the Pulmonary Artery or the Aorta, and being not immediately able to overcome it, suspends as it were its contraction, till it is reinforced with a sufficient supply of Spirits to drive the blood on in the usual channels. Therefore we may observe, that in a fit of very strong palpitation, the distance between the pulfations is greater; and the longer the interval is, the more violent they are. This is the case in great fulness of blood: hence Galen observes, that upon this very account, those are most subject to Palpitations, in whom the Hammorrhoids or Menses are suppress'd. This complaint likewise may not only be owing to plenitude, but either to an excessive rarefaction, or too great a cohesion and tenacity of the particles of the blood, or

to any large quantities of wind, which oppress and distend the Chest or the Lower-belly. For one or other of these reasons we see a Palpitation of the Heart is a familiar symptom, which attends Hypochondriacal and Hysterical persons, as Actuarius observes: and Hollerius describes a case relating to this disease, where the Pericardium was swell'd with wind alone to a vast dimension; and no other cause appear'd, which cou'd occasion the disorder.

Actuarius says more of the cure of a Palpitation, than any of the other Greek Physicians; besides Alteratives, which must be adapted to the causes of the complaint and the constitution of the patient, he lays the chief stress upon bleeding and purging; the last of which methods I believe is first mentioned by this author. And certainly as the intention of curing, where the distemper arises from some particular state of the Spirits and the Blood, must be either to diminish

minish the influx of Spirits into the Nerves, or to take off the refistance in the vessels of the Heart: gentle Evacuations feem to answer both these ends, especially bleeding and purging; both as they empty, and as they revell. I believe there is no Palpitation, which is properly original or Idiopathick, and which depends upon an ill state of blood, wherein both these sorts of applications are not rational, whatever Semertus may dictate otherwise: and I have often wonder'd, that our countryman, Dr. Willis, mentions neither of them in his method of curing this distemper. Pifo, no ill practitioner, recommends both d, and so indeed do many practical Writers: but they are fo full of salvo's and cautions; that it is hard to understand from them, where to apply either of these remedies, and where not. Certain it is, that Galen advised bleeding universally;

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⁻ib os 3, 2,

and it is a remarkable case he gives us of one, who every spring was seiz'd with a violent Palpitation: bleeding every spring three years successively in the fit, took it off; which the patient observing, the fourth year he prevented the fit by bleeding earlier, and had the like fuccess for several years after. In the case of plenitude all agree upon bleeding; but Salius f seems to be in the right, when he prescribes it, whether there be any plenitude or not. For certainly if we take this Palpitation, as proceeding either from too great a hurry in the Spirits, or from too great a rarefaction or cohesion of the blood, which may produce a stronger resistance in the outlets of the Heart, diminishing the quantity of the blood must in every respect relieve. And therefore we see in Symptomatical palpitations, which arise for instance, from the Menses or Hamorrhoids suppres-

Loc. affect. 5, 2. f Curat. particul. affect.

fed, as foon as ever nature recovers her usual course, this disorder of the heart goes off. Nay, the sudden eruption of the latter, where it has not been habitual, seldom fails of removing this complaint. It is without doubt a very wife rule, which Sennertus lays down, that when an excess of water in the Pericardium occasions the Palpitation, we should neither purge nor bleed: which if we did, we should certainly find the attempt ineffectual; the cause of the distemper being beyond the reach of these applications. But how a warm Electuary, a hot Loaf, or an aromatick Bag should difcuss or wast this Water here, which he proposes, is equally as inconceivable, as how it should be drawn off by blistering upon the Sternum, which some recommend, and which in his opinion is incomprehensible. The case he describes, I doubt, is incurable: and therefore we may spare our pains in arguing, whether bleeding be proper or no. I must here here add one remark, that the cure of an original Palpitation has been omitted by most of our Writers in Physick, who have generally directed all their rules of practice to those of the Sympathick kind only ?: tho' certainly there are Palpitations, which depend upon no other formed distemper, nor yet upon any fault of the Heart or Pericardium, and which may be removed by art, as Actuarius here proposes.

Actuarius is the first Greek writer, who has mention'd or describ'd the milder sorts of purging medicines, such as Cassia, Manna, Sena, Myrobalans: the two last he says were brought from foreign parts to his country, i. e. from Syria and Æg ypt. Sena he describes as a fruit; by which no doubt he means the same thing, as Serapion does by the Vagina, and Mesue by the Folliculus, which contains the Seed: for neither these authors, nor Actuarius

mention any thing of the leaves. And tho' these are chiefly in use now, yet the pods are sometimes made use of too; and by what we can learn from these Writers, were probably the only part of Sena, which was then administred in Physick. He adds, that this Simple is very effectual in purging off the Phlegm, as well as the Bile: the first quality is what the Arabian Writers take no notice of. What he relates of its coming from Syria as well as Ægypt, agrees with the best accounts we have of this Plant: that which is brought from the Levant being still esteemed the most valuable. As to these several sorts of purges he speaks of, he professedly takes them from the Arabians, whom he calls Barbarians, who without dispute first introduced these Simples into Physick. He gives the same account of the three forts of Myrobalans, as they do; and quotes the name of the Emblica & Bellivica in their own language. These two last, tha tho' in their qualities they have a great affinity with the Myrobalans, yet are here distinguished from them, as they are indeed by all the Arabians. Myrepsus seems to be the first who confounds them with the Myrobalans, and therefore mentions five Sorts of them, as the moderns do generally after him. What Actuarius says of the composition of all these sorts b, which is called Tryphala, or rather Tryphera parva, (for Triphylos, as Gesner would read it, seems too far-fetch'd) is exactly the same we meet with in Serapion d, and Mesue, whom he calls the Barbarous Wise-men, and is recommended by them in the very same cases. He employs a whole chapter in treating of Syrups and Juleps , in both which, Sugar is generally an ingredient : and these, no doubt, he likewise took from the Arabians. Hence it is, that he is supposed by some to have been

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b Meth. Med. 5, 8. c Epist. 1, 22, d Simpl. 95. e 5, 9. f 5, 4.

well-skill'd in the Arabick tongue. But whatever acquaintance he might have with some of the Arabian Medicines, it is very remarkable he treats of no other distempers, than what are to be found in the other Greek Authors; and does not mention any of those diseases, which the Avabians first took notice of, not fo much as the Small Pox. The Sarracens first brought in this distemper, and wherever their Arms prevailed, this spread itself with the same fury in Africk, in Europe, and thorough the greatest part of Asia, the Eastern part especially: and it seems very surprizing, that in several hundred years, it should never appear in the Gracian Empire: as, if we consult not only the Physicians, but the Historians of that Time and Nation, we have reason to believe it never did, especially when they never fail to take notice of an Earthquake or a Plague.

ANOTHER thing, which we meet with in no Greek Writer else before Actuarius, is the mention of Distilled Liquors, as the Rhodostagma, and the Intybostagmas, which the translator calls Stillatitius liquor Rosarum, & Aqua quam Intybus stillavit: and which are by the Author us'd as ingredients in a Julep. Gefner indeed contends, b that these liquors here specified, are not prepared by any Chymical Process, and are nothing more than Syrups of those Plants; just like the Rhodostatton described in Paulusi. Mr. le Clerc, following the opinion of Langius!, thinks otherwise; and has shewn very plainly, that the stillatitious liquor of Roses mention'd by Actuarius, is very different from the Rhodostatton of Paulus, which is only made with the juice of roses and honey boiled up together. His judgement seems to be very right in this matter; and as a further proof

g Method medend. 5, 4. b Præf. Euonym. i lib. 7. l Epist lib. 1, 53.

of it, give me leave to observe a pasfage or two in Nic. Myrepsus, one of the last of the Greeks, and who often copies from our Author. He describes the Rhodostacton m of Paulus, only with this difference, that he fays, it may be made with sugar, as well as with honey: then he describes the Hydrorosatum, as it is delivered down to us by Ætius and Paulus, a medicine much like the former, with this variation alone, that water is added to the roses: and after that he proceeds to give the receipt of this very Julep in Actuarius; which proves at least, that he thought it a preparation very distinct from the other two. And it must appear very evident to any one, who considers the composition itfelf, that it is a very absurd one, unless the distilled rose water be meant: for otherwise it is just a double trouble, and making the medicine twice over, with

the very same ingredients, to little purpose.

Mr. le Clerc supposes that Actuarius was bred up in the school of the Arabians, and learnt somewhat of the Chymical Art from them: but this feems to be a mere conjecture, founded upon no authority whatever. For though without dispute Actuarius knew, as has been remark'd, some of the Medicines they introduced, which might be owing to some casual commerce and communication at that time between the Greeks and the Arabians, yet it does not in the least appear, that he was vers'd in their physical Writings: as one may be well acquainted with a Drug, and the use of it, which comes from the East or West Indies, without knowing any thing further of the Theory or Practice of Medicine in those Countries.

As to this point of Distillation, or of the introducing any Chymistry into Physick, Mr. le Clerc fixes the Epoche of it

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in the time of Avicenna, who, as he supposes, first applied this fort of knowledge in the way of Medicine. I shall not here enter into any dispute concerning the Origin of medicinal Chymistry; only I must observe, that if it be, as perhaps it may be, derived from the Arabians, the honour of the invention ought rather to be restored to Rhazes: for not to mention Mercury extinct and fublimate, which he takes notice of likewise, Oyl of Eggs, the only Chymical Medicine as I can find in Avicenna, is described by that Author. Rhazes besides gives us the first account of the Oleum Benedictum or Philosophorum, and is very particular in explaining the manner of making it in a Glass Retort, fuch as will bear the fire, and well luted (luto sapientia, says the interpreter) increasing the fire gently and by degrees, cill a red oyl comes off by distillation.

f Ad Almanz. 8, 42.

This is the first Writer, I believe, who gives the least hint of Chymical Medicines; for what we find in the old Greek Chymists, as they are called, relates only to the fusion or transmutation of Metals. Mr. le Clerc pitches upon Avicema, as the first introducer of Chymistry into Phylick; for this reason, because in him, he fays, occurs the first mention of a Chymical remedy, tho' but of a single one, which is distilled Rose-water; and he quotes two t places out of him to that purpose. But if he would look into Avicenna more carefully, he would find that there is not the least hint of Distillation, but a very plain direction how to boil the Roses in Water, the same as the Greeks used in making the Rhodostatton and Hydrorofaton: and what Gefner says of the old Arabians, I believe is true, that wherever the water of any plant occurs in their Writings, there is meant

t De Viribus Cordis & Pleurit.

nothing more than a Decoction. And it is certain, that of all the Arabian Writers, Joh. Damascenus called Mesue, who lived in the latter end of the twelsth Century, in the reign of Frederick Barbarossa, is the first, that has described the process of making this water in the Chymical manner.

And yet there is reason to think, that the distilled Rose-water was in use among the Greeks before this time. There is a passage in the history writ by Anna Commena very particular, and which comes up to this point; where, upon the Emperor's fainting away, some of this liquor was poured down his throat, and brought him to his senses; the words p are to the color saddy usion. This expression cannot, I think, with any propriety of language, be adapted to signify either the Syrup, Decostion, or express'd juice of Roses; and when it is

p lib. 15. sub fine.

applied to the liquor of any plant, it is only then, when upon incision that liquor falls from it by drops, as in Vegetables which yield any Gum or Balfam. Besides in the case reported in this History, one cannot easily imagine, that plain juice of Roses could ever have been thought upon as a Cordial in such an extremity. The death of this Emperor, Alexius, happened in 1118: and therefore supposing that in this place is meant the distilled water of Roses, it appears, that it was known to the Greeks soon after the time of Avicenna.

By the way we may take notice, that the Princess, the writer of this History, as she was reckon'd very learned in many Arts and Sciences, seems to have had some smattering in Physick. We find her very busy in feeling her Father's Pulse, and forming some judgement as to his strength, upon it: she gives a very circumstantial account of his illness, and observes how true was the prognostick,

stick, which the Physician, then in great credit, Nic. Callicles made in that case, when the rest of the Physicians were against purging, after the gouty matter had settled in the shoulder: he foretold, that, since it had left the extremities, it would, unless remov'd by this method, soon fall upon the nobler parts, as it did; upon which an Assima quickly succeeded, and, not long after, Death.

We have besides in this history, a very long and elaborate description of a magnificent Hospital erected for the sick by Alexius: and as this seems to be one of the sirst endow'd foundations of the kind among the Greeks, and therefore may justly claim a place in a History of Physick, I hope I shall not be thought to step much out of my way, if I give a very short extract of it. Alexius built a new Town in a quadrangular form, near the mouth of the Euxine Sea; and among these new-erected buildings, there were Hospitals, which he sounded out of compassion

passion for human infirmities, and for the comfortable subsistance of the mained and the invalids. One might fee there the blind and the lame, as formerly in Solomon's Porch, which was fill'd with the diseas'd of all kinds. The building was double, and raised two Stories high. It was of such a vast extent, that an entire view of it could scarce be taken in one day. Tho' the inhabitants of this Town, and those placed in this Hospital, had neither lands nor possessions, and were reduced to a poverty equal to that of Job, they never fail'd to receive from the liberal Hand of this Prince, every thing that was necessary for their maintenance and support. And what is more strange and furprizing, the Persons who seem'd to have nothing, had their Receivers and Stewards; infomuch that those of the first Rank picqued themselves in taking care of their affairs. By which means great Purchases were made, and great BeneBenefactions continually given to carry on so charitable a work, which she, the Author of the History, liv'd to see finished. But Alexius first made the establishment of it, assign'd the revenues for it both by Land and Sea, and order'd that one of the prime Ministers should always have the Inspection of it. Tho' there were foldiers, who had been disabled, and old men incapable of any labour entertain'd here, it was called the Hospital of Orphans, because generally there was a greater number of these than of any others. There were Letters Patents seal'd by the Golden Bull, to ascertain and secure the funds and the annual income of it. The receivers were obliged to keep an exact account, in order to justify themselves, that they did not embezzle that money which was allotted for the poor. Procopius tells us indeed, that Justinian founded several such Hospitals; but gives no particular account of them, as he does of the other Edifices

fices built by that Emperor. And upon examining the ancient History not only of Greece, but of other Countreys, one would be surprized to find how little occurs, with regard to foundations of this kind.

But to return to Actuarius, and to conclude what I have to say of his Treatise, concerning the Method of Cure, the Author seems to be very curious in the choice and description of his Medicines; and this work of his may pass very well for a good practical System of Physick.

The two Books concerning the Spirits are written in a Physiological way; and all his reasoning in this discourse, seems to be founded upon the principles laid down by Galen, Aristotle, &c. with relation to the same subject. Therefore, as it is scarce of any use either in distinguishing or curing Diseases, I shall forbear giving you any farther account of it: you find an abstract of it in

Berchuysen. I shall observe only, that the style of this Tract is by no means impure, and has a great mixture of the old Attick in it, which is very rarely to be met with in the later Greek-writers.

THIS Author has likewise writ seven Discourses concerning Urine, where he has treated this argument very fully and distinctly; and tho' he goes upon the Plan, which Theophilus had mark'd out, yet he has added a great deal upon this Subject: so much, that he has left scarce any thing new to be faid by any of the moderns, tho' many of them have, almost word for word, transcribed this piece of Affuarius, without so much as doing him the favour to mention his name. He ends these Treatises with a chapter, which deserves every one's perufal, and adds a very pertinent remark about making a Prognostick in Distempers, that nothing contributes more to form a true one, than the Pulse and the Urine jointly consider'd: and therefore in his books concerning the method of cure, he very judiciously treats of these two Indications together. His being acquainted with some of the Arabick Drugs may have given the Handle for an opinion, that he translated these Books from Avicenna: but the manner of writing is so extremely different, that there does not seem to be the least ground for such a conjecture. It is much more probable, that the Arabick copy, preserved in manuscript, was translated from the Greek.

THERE are not proofs clear enough to point out to us the time, where we might fix the precise age of this Writer. He is commonly, without any authority as I can perceive, reckon'd to have lived in the eleventh Century by some, and in the twelfth by others. Lamberius brings him down, as low as the beginning of the fourteenth: for this reafon, because in the Manuscripts at Vienna the books concerning the method of

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cure, are inscribed to Apocauchus, who, according to him, is the same person that made a great figure in the reign of Andronicus and Cantacuzenus, about the year 1330, or 1340. The whole stress of his argument runs upon this circumstance; and because the reasonings he uses to support it, are something extraordinary, give me leave to enquire a little into the force of them. He endeavours to prove, that Apocauchus was the person described by Actuarius (tho' without any name) as going upon the Embaffy to the North, and being his Fellow-student q under Joseph Rachendytes, to whom the books about Spirits are address'd: he represents him as a man skill'd in Philosophy and Medicine: and to prove this, he has recourse to the History of 7. Cantecuzenus, where, he Lays, Apocauchus is ironically called ் சில்க்கைக்டு ச வ்கயும்மாக ஆ் முகியிர்க எத அறவுக

q Præf. in 1 and 2 Meth. Med.

ε φιλανθρώπε, i. e. Magister orbis, & discipulus mitis illius ac benigni præceptoris; nempe Josephi Rhachendytæ, cujus nomen ibi subaudiendum est - Then he goes on thus, Huc etiam pertinet, quod Joh. Cantacuzenus refert Apocauchum metaphoricis loquendi modis à Medicina desumptis uti consuevisse, & J. Cantacuzenum suum appellasse Medicum, utpote cujus opera multis implicatus periculis & miseris affectus modis, ereptus atque curatus fuisset. These are his own Words, which, tho' recited and implicitly agreed to by Fabricius, will appear very surprizing to any one, who will take the pains to consult the Historian himself: for in the first paragraph alleged, Cantacuzenus is so far from meaning Apocauchus, that he is speaking of the Patriarch John, whom he exposes here as a haughty and ill-natur'd man, pretending indeed to be a Teacher of the World,

r lib. 3, 36.

and a Disciple of Him who was meek, and a lover of mankind: in which character it is plain that he describes not Rhachendytes, but our Saviour: and the fame manner of expression, and in the fame sense, he uses in another place". There is almost as great a mistake in what follows about the Metaphors drawn from Physick, which Apocauchus, he fays, so much delighted to make use of: the Historian has not one Word to this purpose; only indeed he takes notice, that Apocauchus was wont to call him his Physician, not in a literal sense, but because he had rescued him from many troubles and dangers: but furely this is far from implying, that Apocauchus had any tast or knowledge of Physick. Nay Apocauchus is so little represented in all this History, as a man of any letters, that he is drawn under the character of one, who from a very obscure beginning, and a

low fortune, from an Under-clerk in the Finances, by a natural cunning and subtlety, and a great dexterity in getting money (of which he was extremely greedy) was at first employ'd in farming some of the revenues, and then advanced to the head of the Publicans in the time of Andronicus the Emperor: and after shifting sides and going over to Andronicus the Grandson, (for he had neither any sense of shame, nor of honour) by little and little he infinuated himself, so as to be made Questor, Governor of the Court and the Empire, and at last great Duke and every thing, as Cantacuzenus himself expresses it. The most wonderful thing was, that he held all this power, contrary to the inclination and opinion of that Prince"; who, tho' he employ'd him in these great posts, thought him always to be an arrant knave.* At length having behav'd with intolerable infolence, as is the na-

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^{* 2, 38.}

ture of all Cowards, and being justly thought the Author of all the publick calamities, this Apocauchus met with the fate he deserved, and was murther'd by the Prisoners in 1345.

But to return to our subject : suppofing the character of this Apocauchus could agree to the person described by Actuarius, it is impossible he can be the man meant here. For it may be easily proved, that not only Actuarius, but another Author, who often mentions and transcribes him, must live before this time. This is Nic. Myrepfus, the last of the Greek Writers, if we may reckon fuch an impure Style, as he uses, Greek: who indeed has taken the pains to collect together, by way of a Dispensatory, the feveral compound Medicines, which we find dispersed in the Greek and Arabian Writers. It is very certain, that Myrepfus compiled this work before 1 300: for not only Petrus de Abano, the famous Conciliator, who died in 1316, but M. Sylvaticus and F. Pedemontanus, both Physicians to Robert STUI

Robert King of Sicily, and who wrote very early in his reign, which began in 1310, by name refer to several receipts, which we find in him. So far one may argue negatively: and tho' it does not appear how much older he was, yet it feems probable, that he lived not long before the close of the thirteenth Century. For not to mention the Antidote of Michael Angelus, who might perhaps be the first Emperor of the Paleologi, about the year 1250, and whose wife was daughter to Alex. Angelus; he describes another, which Pope Nicolas made use of. This Pope I should think to be the third of that name, who died in 1 280, and contemporary with Myrepfus; because as the Times were then, he was a man of learning, and a great encourager of all forts of it. This at least is a sufficient proof, that Actuarius is a Writer of a more early date, than Lambecius represents him. I have before mentioned something of Actuarius's style: and even from thence one may, I think, draw an argument, that he was more ancient; if we compare him either with Pfellus or Simeon, he will appear to have a much greater purity in his diction: and indeed after 1200, we shall scarce meet with any Writer but who has some mixture of modern Greek, or some Barbarisms taken from other languages.

If the authority of the Manuscript, in which this is inscrib'd to Apocauchus, be still objected, the answer is easy; that either it must be some other Apocauchus, or that the title was forg'd: a practice very familiar among the transcribers of Manuscripts, and as ancient as the erection of the Philadelphian library.

SOME other Greek authors, and some other pieces of these already mentioned, not very material, may be found in Athenaus, Photius, Lambecius, Fabricius, &c. But as they contribute little to illustrate either the History or the Art of Physick, I pass them by. Neither shall I say any thing of the Latin Writers, who lived after the time

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of Galen, since Mr. le Clerc in the first edition of his History, has given a full and distinct account of them all: except of Marcellus the Empirick, who most impudently pillaged and transcribed Scribonius Largus, and did little in this work which he has left, besides adding a few trifling receipts or rather legends of his own.

THUS have I endeavoured to give you a short History, as well as I could ground it upon any good Authorities, of the few Greek Physicians from the time of Galen: and I have pointed out some things relating to the improvement of Physick, which occur in their books. There has been indeed a prevailing opinion, that scarce any thing was done among the ancients towards advancing this Art, but what is comprized in the voluminous Works of that great Man. What gave the first rise to such a notion, probably might be this: because it appeared at first sight, that those who succeeded

ceeded Galen, did transcribe a great deal from him, many were inclined to think, without giving themselves the trouble of examining and comparing their Writings, that they did nothing elfe but transcribe. And no editor of these Authors has yet taken the least pains to undeceive them in this point: what has been left us by way of Comment, being employ'd chiefly in Grammatical or Critical Remarks, without any view of explaining what relates either to the History or the Practice of Phylick, in the time of each respective Writer: I need not allege a greater proof of this, than the Dolabella of Cornarius upon Paulus. There is another circumstance, which might insensibly concur in the promoting this mistake, I mean the Extinction, or rather the Comprehension of all Sects, as I have observ'd, after the time of Galen. For no doubt, the broaching a new Doctrine, especially if it were fan-

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e Hence probably the Epifynthetick Seel took its name.

tastical and extravagant, did then, as it always will, make a greater noise in the World, than any improvement in a Pra-Etical way, either of a Medicine or of an Operation: and as the Writers in Phyfick for three or four Centuries after Galen, seem to have applied their thoughts only to the latter fort of Study, this it felf may be one reason, why they have been fo little regarded. But with all deference to Hypotheses, which were the chief points these Sects distinguished themselves by, and in which for the most part the purfuit of their inquiries intirely center'd, I should imagine that the invention of a new Medicine, or a new Method of Cure, would at least equally deserve to be recorded in the Annals of Physick.

I HAVE given some instances, and more might be given, where the Physicians I have been speaking of have described distempers, which were omitted before; where they have taught a new way of treating old ones; where they have

have given an account of new Medicines, both simple and compound; and where they have made large additions in the Practice of Surgery. And if these be any real improvements of the Art, I think it cannot be denied, but that Physick was still making a progress 'till the Year 600.

THIS will further appear evident to any one, who will reflect upon the account we have of distempers, in these several periods of time. Mr. le Clerc has given us a lift of all the indispositions and diseases, described or mentioned by Hippocrates, which is much longer than what we take notice of in Celsus: I wish he had drawn out likewise a list of those that occur in Galen; by which we should have feen, that the catalogue of Distempers was not so much enlarged, as we might naturally imagine it would have been, were we to judge from the bulk of his Writings. But if we examine the works of Ætius with this view, and com-

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pare his account with that of Galen, it will be found, that the number of diftempers, as they are reckon'd up by Ætius, amounts to almost a third part more. It will be too tedious, and perhaps too uninstructive to enter into all particulars; and therefore I shall instance only in one Article, that of the Eyes. The disorders incident to that Organ, as they stand rerecorded in Hippocrates and Celsus, are much the same, and are in all about thirty: Galen gives the names of several others, which indeed have no essential difference, and therefore he omits any description of them; in Atius, who has employ'd a whole d book and more in treating of them, you will find there is at least double that number fully explained, with their Symptoms and Cure. Among these Celsus describes only thirteen, and Galen scarce any, which require manual operation: but in Ætius we meet with thirty

different distempers of the Eyes, where he advises the using Chirurgical Applications; and in one of them (a great defluxion of humours) he at large recounts three e several methods of cure by way of Surgery. I must observe here, that in this book, which is one of the longest, Ætius quotes fewer Authors, than he usually does in the others: which may at least make it reasonable to think, that he wrote in some measure upon this subject from his own experience. many places indeed it is evident, that he did: and the chief authors he here refers to, are Severus and Demosthenes; two intelligent Writers, as appears from these very fragments. The latter was Scholar to Alexander the Herophilean, called Philalethes as well as his master: and wrote three books concerning the eyes, which Galen says were very much commended in his time.

As to Surgery particularly, I think I may without any derogation to the more ancient Writers, affirm, that whoever carefully looks into Atius and Paulus will be convinc'd, that a great many, improvements have been made in that branch of Physick, which are not recited in Galen, or any where else. And in general it may be remark'd, once for all, that the Writers I have mentioned in this Period 'till the beginning of the feventh Century, and those whose remains they have preserv'd, were not such collectors (which is commonly the case) as had little knowledge of the fubject they undertook to treat of, but were every one of them men of experience and practice. And if the later Greek Writers, who succeeded, were persons of a lower character, and made little advancement in the Art they professed, it is the less to be wonder'd at, fince for many Centuries universal ignorance prevailed over all the World:

and it could not be expected, that Phyfick should make any progress, when all other Sciences and all sorts of Learning were almost quite extinct, or that it should be exempt from the common calamities of those times.

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You see, SIR, that I do not overvalue this lower Class of Writers, nor yet do I regret the time and pains I have imploy'd in perusing them. For tho' the gleanings from thence are inconsiderable, yet they are not wholly to be despised. Even from these, and much more from those great Authors that went before them, I am convinced of the advantages we may receive from the Works of our Predecessors: and am fatisfied, that a thorough acquaintance with the Writers in Physick, especially the old ones, is the surest Way to fit a man for the Practice of this Art. And if this may seem too strong an affertion to some, who can tast nothing but their own resections on their own practice, I desire it may be observed, that there are some cases at least, which do but seldom happen: and when they do, I dare venture to say, that they will be less surprizing to one, who has a familiar acquaintance with the good Authors in Physick; nay, that they will be more readily discerned, and more clearly distinguished by him, than by the greatest Genius that despites these assistances.

EVERY Physician will make, and ought to make observations from his own experience; but he will be able to make a better judgment and juster observations, by comparing what he reads and what he sees together. It is neither an affront to any man's understanding, nor a cramp to his genius, to say, that both the one and the other may be usefully employ'd, and happily improv'd in search-

fearching and examining into the opinions and methods of those, who lived before him, especially considering that no one is tied up from judging for himfelf, or obliged to give into the notions of any author, any further than he finds them agreeable to reason, and reducible to practice. No one therefore need fear, that his natural fagacity, whatever it is, should be perplexed or missed by reading. For there is as large and fruitful a field for fagacity and good judgment to difplay themselves in, by distinguishing between one author and another, and fometimes between the several parts and passages in the same author, as is to be found in the greatest extent and variety of Practice. It feems to me very presumpruous in those, even of the longest experience, to think, that they can meet with nothing new or worth taking notice of in the Writers of former ages. And for my own part, I don't see how any honest man can fatisfy his own mind -three

mind in such a superficial knowledge, as is to be gathered barely from a few modern systems, or think himself sufficiently qualified to fit upon life or death (for that is the case) by only consulting two or three Dispensatories, or peruling as many Apothecaries files, or even (what indeed is of somewhat more use) in spending a few months in an Hospital. It is an arrogance peculiar to some of our age and nation, to despise the most learned and celebrated Writers in their own Profession: and the darling notion of free-thinking carried beyond its bounds, has done a great deal of mischief in Physick, as well as in Divinity. 'Tis true, that no one ought to run implicitly into another's notions, merely upon account of his name or his antiquity, how great soever either of them may be; but furely 'tis as true, that a long and established reputation is a fufficient reason, why any of the ancients should be heard and try'd, before they

they are condemned: and I am apt to believe, upon an impartial inquiry it will appear, that it was upon very good grounds that Hippocrates, and Galen, and their successors, have been all along reckon'd the great lights and fathers of the faculty, and that such an universal deference has been paid to their Writings thro' an uninterrupted succession of many centuries. In some of which times it is possible, there may have lived men of as great talents, and of as large experience, as even the present age, renowned as it is, can produce. It has not usually been look'd upon as an extraordinary mark of wildom, for a man to think himself too wise to be taught: and yet this seems to be the case of those, who rely wholly upon their own experience, and despise all teachers but themfelves.

Why should it not be worth every Physician's while to compare cases and symp-

fymptoms, and reasonings and remedies, as they are laid down by former and later Writers? since by making such a comparison, and observing where they agree, and where they differ, where either the one or the other have succeeded, and where they have failed, he may have a better reason for preferring the moderns (if they are to be preferred) than the World will allow him, if he has only conversed with one side.

It is commonly said and believ'd, that the Materia Medica is not only very much improved, but reduced into a far narrower compass, than in former ages: how far this is exactly, and in all points true, might possibly admit of some dispute, but it is not now the question; for be it true or false, it signifies nothing to the Science we are speaking of, unless it could be alledged, that the nature and number of distempers were contracted too; which I doubt are

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not. And yet if we were to take our notions from the concile method of study used by some of our fraternity, we should utterly discard that divine old Man, Hippocrates, by disclaiming and reverfing his very first Aphorism; and if this were to be the state of Physick, I know no reason why all of us should not list under any Empirick, who precends to a Nostrum. For where is the mighty difference, in point of knowledge, between forming all our notions after this of that particular Author; and confining all our prescriptions to this or that particular Medicine? Experience without doubt is a great help to knowledge, and no man of fense can undervalue the advantages of it; but it must not be denied at the same time, that the word is often made use of, where the effects do not so plainly appear. A man may practice, and practice all the days of his life, and yet be never the wifer for his experience, if he neglects to make the proproper observations, which that experience might suggest to him: and it is not very likely, he should be over-nice in his observations, who constantly goes on in his first track, and has no other scheme, but his own narrow notions in his view; whereas the fearcher of Authors has the benefit of other mens experience together with his own; and it is from the joint-concurrence of thele, that we can hope for any considerable advancement in knowledge. Were it not for this, the oldest Practitioner would always be the best Physician: and there would be little or no diffetence, even as to the scientifical Part, between an old nurse, and the most regular Professor.

AFTER all, I am far from thinking, that reading all the books in the Faculty, without proper observations, and good judgment, can furnish a man with such knowledge, as is required in a Physician:

sician: Much reading, says a great Man, is like much eating; both of them do hurt, where there is not a good digestion. Nor do I suppose, that a man's confining himself wholly to the study of the Ancients, will sufficiently qualify him to set up for Practice: all I contend for is, that the dignity of the Faculty may be maintained, which can only be done by men of fuitable knowledge; which knowledge can never be obtain'd in the degree it ought to be, without reading and comparing together the ancient and the modern Writers, and applying each of them as they serve best for any general notion, or present exigency. And 'tis the manner of this application, which does and must make one Physician excel another. For want of this necessary acquaintance with the best Writers, we see how ill a great many Authors have fucceeded: who, whatever airs they may assume upon the score of a long Practice, when they come to treat of diftempers, for miler)

the most part write so as not to be worth any one's reading; and are so far from apprehending or imitating the good sense in their predecessors works, that sometimes they do not so much as know in what Language they were written.

THE advantages of being converfant with the best Writers in this Profession, might be much farther pursued: but this Treatise has grown under my pen so far beyond what I design'd, that a long digression at last would be inexcusable. I will put an end therefore for the present, to your trouble and my own. Only give me leave, SIR, to mention (what was first in my thoughts, when I address'd this discourse to you, and what is now as warm upon my mind, as it was then) how sensible I am of your fingular friendship, and the general kindness shewn to me by the whole Faculty, at a Time, when I was appreapprehended to be a Danger. This I thall always remember with pleasure, and this I think my self obliged in the most publick manner to acknowledge.

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